

1908

ELECTRIC LIGHT
SUPPLY
CATALOG

WESTERN ELECTRIC
COMPANY

NEW YORK

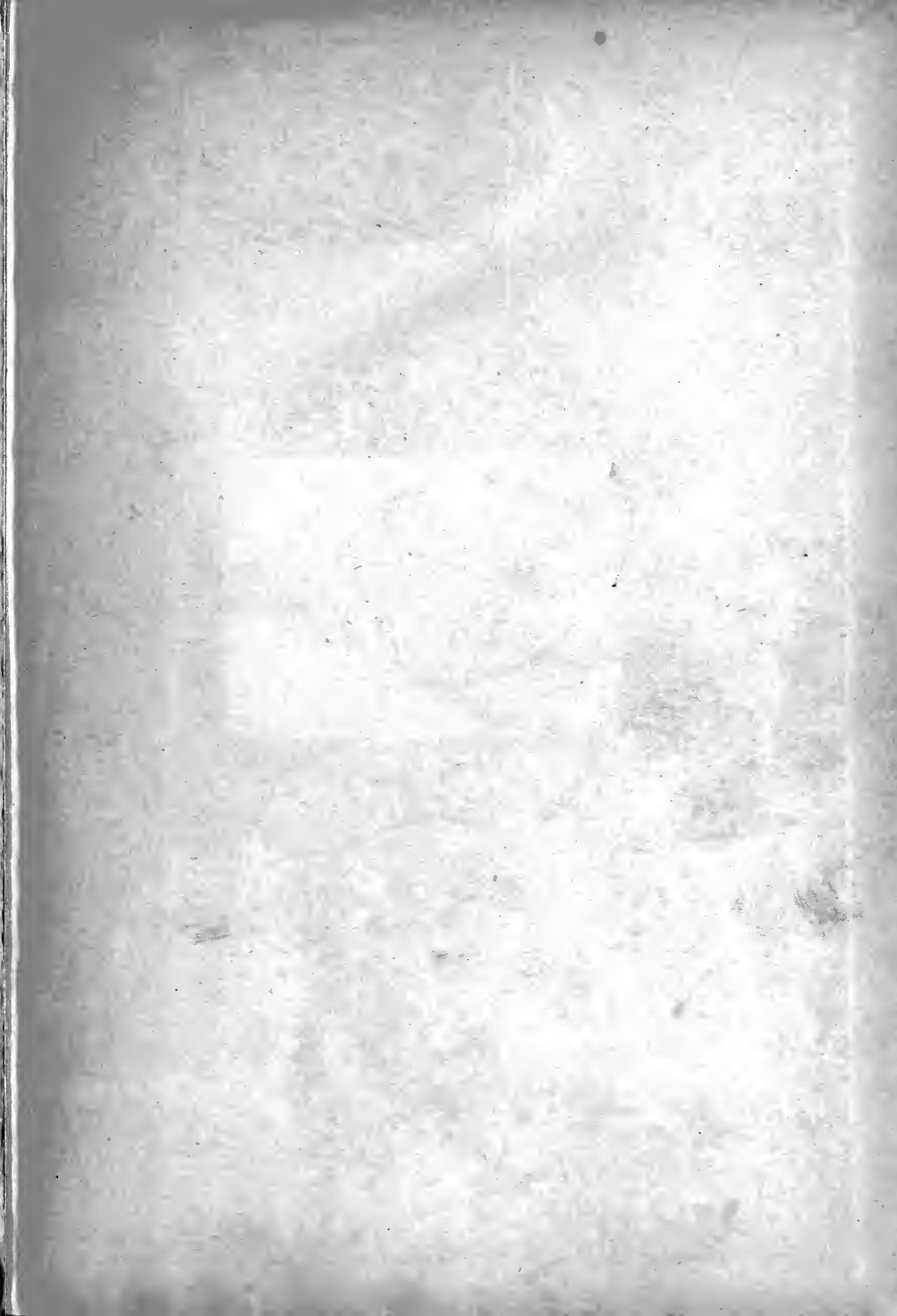


LIBRARY OF CONGRESS.

Chap. TK4195 Copyright No.

Shelf W5
1898

UNITED STATES OF AMERICA.





Some Specialties were received too late to be placed in the body of the Catalog. They have been placed in an Appendix beginning at page 494.

Electric Light Supplies



Western Electric Company

Chicago

227 to 275 South Clinton Street

242 to 258 South Jefferson Street

37 to 45 West Congress Street

New York

Bethune and West Streets.

London

79 Coleman Street

Antwerp

33 Rue Boudewyns

Berlin S. O.

Engel Ufer 1

Paris

45 Avenue de Breteuil

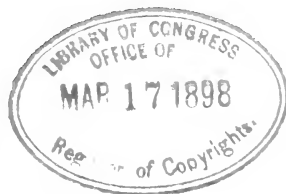


Revised Edition,
1898

Copyright, 1897, by
Western Electric Company

Copyright, 1898, by
Western Electric Company

L.



2nd COPY, 17839
1898.
TWO COPIES RECEIVED.

TK 4195
W5 1898

4433

TH 299
W5 1898

7-39832-2

Introductory



THE *Electrical trade, in referring to this copy of our Electric Light Catalogue, will note that it covers only such material as is specially adapted to electric light work, and that in addition to the material listed herein we carry a complete stock of both Bell and Railway supplies, and can furnish promptly anything in the electrical line, even though we do not list it.*

We issue for the use of the Electric Railway trade a catalogue devoted to that branch of the business, and will, on request, mail copies to any of our Electric Light customers who have use for it.

Our Electric Light Supplies are of the highest quality, and every article is fully guaranteed.

Western Electric Company

TERMS.

OUR terms to people of established credit are 30 days net, in Chicago or New York funds. Unless your standing is known to us, or you have a rating with the Agencies, please have statement of your financial condition and satisfactory references accompany your order; if this is not done, there will necessarily be delay while we look up your credit.

All accounts will be due on the fifteenth of the month following shipment, and if not paid by that time will be subject to sight draft without notice.

We do not allow cash discounts

Goods will be sent C. O. D. if a remittance sufficient to pay express charges both ways accompanies the order.

If 25 per cent. of the bill is remitted with the order, the goods will be forwarded by freight, and draft for the balance, with bill of lading attached thereto, will be sent to any designated bank, so that the goods can be delivered at destination on payment of draft.

Payment may be made by Draft, Post Office or Express Money Order, or Registered Letter; we will not be responsible for remittances lost in transit.

Prices.

All former prices are hereby annulled.

All prices are subject to change without notice.

Boxing, cartage and postage will be charged at cost.

We will cheerfully and promptly answer all inquiries for prices and discounts. In writing us for quotations kindly refer to the page of our catalogue on which the articles are described, and state the quantity desired.

Shipments.

We request our customers to give us shipping directions with their orders, but in their absence we will use our best judgment in making selections of routes. As we employ experienced packers, we cannot be responsible for breakage after having obtained "in good order" receipts from a transportation company. All claims for breakage and damage should be made to the carriers.

Goods ordered to be shipped by mail will only be sent at purchaser's risk of loss or damage.

⚡ Telegraph Code. ⚡



CUSTOMERS are requested to make use of our code words as far as possible in ordering goods, requesting quotations or requesting information relative to shipment of orders, by telegraph, as it saves considerable expense, making it possible to send a long message for the price of a short one, and experience has also shown that it reduces the liability to errors. By a little ingenuity in arranging such

a message, from thirty to fifty words can be transmitted for the price of a ten word message. Telegraph inquiries received by us in code will be replied to in the same manner, not otherwise. We give below a number of code words, representing business phrases and sentences which are to be used in connection with code words given on the following pages:

CODE IN GENERAL:

Lapwing	Answer by mail.
Larboard	Referring to our letter of.
Larceny	Referring to your letter of.
Larch	We write you fully to-day.
Largeness	We have no letter from you.
Largess	Will write you fully in a day or so.
Lariat	Write giving full particulars.
Lark	Answer by telegraph—day message.
Larva	Answer by telegraph—night message.
Larynx	Referring to our telegram of.
Lascar	Referring to your telegram of.
Lash	Telegraph immediately.
Lashed	Telegraph reply soon as possible.
Lashing	We have no telegram from you.
Lass	Why do you not telegraph?
Lasting	Shall we?
Latch	Will you?
Lateen	Will you accept?
Lateness	Wire at once if accepted or not.

CODE IN GENERAL—(Continued):

Latent	Will greatly accommodate us if you will.
Latently	According to contract.
Lateral	Not according to contract.
Lather	To which add the cost of.
Lathered	In addition to.
Lathering	How did you address?
Latin	Was addressed to.
Latinize	Please note an advance of.
Latitude	Would you advise?
Latterally	Would advise you to.
Latterly	Would not advise you to.
Lattice	Unless otherwise advised will assume that.
Laud	Will you agree to?
Laudable	Will agree to.
Laudably	Must have answer by.
Laudation	Will be in.
Laudative	Will be here.

WESTERN ELECTRIC COMPANY.

CODE IN GENERAL—(Continued):

Laugh	Utmost care must be used.
Laughable	Cash on delivery.
Laughed	Cash in 30 days
Laughter	Will not allow any commission.
Laughing	Commission will be allowed.
Launch	Your financial standing being unknown, we will send goods C. O. D. unless otherwise instructed.
Launched	Kindly send us references as to your financial standing, or shall we ship via freight with draft attached to bill of lading?
Laundress	Will you agree to the conditions?
Laundry	Contract awarded.
Laura	Contract will be awarded.
Laurate	Will you extend credit?
Laurel	Have you decided?
Lava	Have not decided.
Lavation	Have decided.
Lavatory	Will guarantee delivery by the.
Lavender	Cannot guarantee delivery before the.
Lawfully	The diameter is.
Lawfulness	Will do the best we possibly can.
Lawgiver	Do the best you possibly can.
Lawgiving	Shall we do so?
Lawless	Do so.
Lawn	Can do nothing until.
Lawrence	What have you done about?
Lax	Will deposit sight draft on you to-day, unless advised to the contrary, for dollars.
Laxative	Please accept our draft for..... dollars.
Laxity	Send duplicate copy of invoice dated.
Laxness	Have examined very carefully and find.
Laymen	Expenses to be paid by.
Lazily	Do not fail to.
Laziness	Have figured as close as possible.
Lazy	Freight must be prepaid.
Leach	Freight rate per hundred pounds to destination.
Leaden	What is freight rate per hundred pounds?
Leader	Guarantee the account.
Leading	Hold subject to your order.
Leafage	Does not include.
Leafing	Must be included.
Leafless	Will keep you fully informed.
Leafy	Insist upon.
League	A wait instructions.
Leagued	Letter in transit with full particulars

CODE IN GENERAL—(Continued):

Leak	Shall we deliver goods on verbal order of your Mr.?
Leakage	Advisable for you to place order at once, prices tending to an advance.

ORDERS:

Leaking	Add to our order of.
Leaky	Cancel our order of.
Lean	Change our order of.
Leaned	Hurry forward goods on our order of.
Leaning	Have you shipped goods on our order? If not, when will you?
Leanness	Enter order if you can ship in.
Leaped	Hold for instructions our order of.
Leaping	If you cannot ship in time named advise by telegraph.
Learn	Instructions by mail.
Learned	Prepay freight.
Learning	Shipping instructions will be sent you.
Lease	Ship immediately.
Leased	Ship as soon as possible.
Leasehold	Ship by express.
Leaseholder	Ship by fast freight.
Leash	Ship quickest route.
Leaven	Ship cheapest route.
Leavened	Send tracer immediately for shipment of.
Leavening	Wait receipt of letter before proceeding with order.
Lecture	Change order for.
Lectured	Send C. O. D. by express.
Lecturing	What quantity can you ship per day?
Ledge	Do not delay.
Leeward	Duplicate our order.
Leeway	Can you furnish?
Legacy	Hold subject to our order.
Legal	Hold until further orders.
Legalize	Send us immediately.
Legally	This is very important.
Legate	Send tracer on shipment—goods not here.

QUESTIONS:

Legatee	At what price could you furnish?
Legation	Quote us by telegraph.
Legend	Quote us by next mail.
Legendary	Quote lowest price by telegraph, F. O. B. New York.
Legging	Quote lowest prices by mail, F. O. B. New York.

QUESTIONS—(Continued):

Legible	Telegraph lowest price, F. O. B. New York; and how soon can ship.
Legibly	Can you ship immediately?
Legion	Can you ship in?
Legislate	Have you in stock?
Legislated	Have you in stock? If not, how soon can ship?
Legislating	How soon can you ship?
Legislative	How soon can you make first shipment, and how fast remainder?
Legislator	What substitution can you make?

ANSWERS—(Continued):

ANSWERS:

Legislature	Please specify quantities and trade number.
Legitimate	Unable to give better price.
Legitimately	We quote.
Legitimist	We quote for immediate acceptance.
Legless	We quote in reply to your inquiry of.
Leisure	We quote shipment from stock.
Leisurely	We quote shipment in.
Leming	We cannot accept at the price.
Lemon	We will accept your order.
Lemonade	We do not make the article.
Lander	Can ship at once from stock, if advised immediately.
Lending	Can ship at once on receipt of order.
Lengthen	Can ship in.

Lengthened	Can begin shipping at once, and complete in.....
Lengthening	Can ship within one week from receipt of order if advised at once.
Lengthily	Can ship within two weeks from receipt of order if advised at once.
Leniency	Have none in stock.
Lenient	First shipment will be made.
Lent	Have entered order and will ship.
Leonard	Have sent tracer as requested.
Leonine	Have suspended work as requested.
Leonora	Too late to cancel order.
Leopard	Unable to ship goods at time promised.
Leopols	We ship you to-day.
Leper	We expect to ship.
Leprosy	We will complete your order.
Leptous	We will ship.
Lessen	We have shipped.
Lessened	We have completed your order and shipped same.
Lessening	We have entered order.
Lothargy	Telegraph shipping instructions for your order of.
Lettuce	Can deliver part of your order at once. Shall we ship portion or hold till we can make one complete shipment?
Levant	Do not understand your order. Send duplicate with full details.
Levelness	Send us official order confirming your telegram.



SWITCHES.



Nos. 802 and 827.

Paiste Single Pole Switch.

Metal Top.			
Code Word.	List No.		List Price.
<i>Mange</i>	802	5 Amperes, each.....	\$0.25
<i>Manger</i>	827	10 “ “ .....	.60
<i>Raddcliff</i>	20001	5 “ “ with grooved base each .....	.25
<i>Rago</i>	20002	10 “ “ “ “ .....	.60



Nos. 803 to 813.

Paiste Single Pole China Switch.

Five Amperes.

<i>Mangle</i>	803	White, each.....	.72
<i>Mangled</i>	804	Ivory, ".....	.72
<i>Mangler</i>	805	Black, ".....	.80
<i>Mangling</i>	806	"Roman Gold" Flaked, each.....	1.00
<i>Mango</i>	807	B&nd Gold, each.....	1.00
<i>Mangrove</i>	808	Red, each.....	.80
<i>Manhood</i>	809	Blue, ".....	.80
<i>Maniac</i>	810	Oak, ".....	.80
<i>Manifest</i>	811	Antique Oak, each.....	.80
<i>Manifested</i>	812	Mahogany, ".....	.80
<i>Manipulate</i>	813	Walnut, ".....	.80



Nos. 828 to 838.

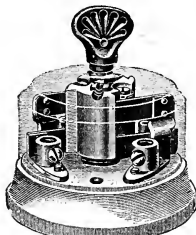
Paiste Single Pole China Switch.

Ten Amperes.

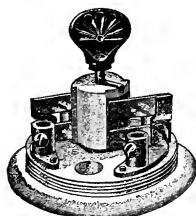
<i>Mankind</i>	828	White, each.....	.96
<i>Mantiness</i>	829	Ivory, ".....	.96
<i>Manty</i>	830	Black, ".....	.96
<i>Manna</i>	831	"Roman Gold " Flaked, each.....	1.40
<i>Mannerism</i>	832	Band Gold, each.....	1.40
<i>Mannerly</i>	833	Red, each.....	1.12
<i>Manning</i>	834	Blue, ".....	1.12
<i>Manor</i>	835	Oak, ".....	1.12
<i>Manson</i>	836	Antique Oak, each.....	1.12
<i>Mantle</i>	837	Mahogany, each.....	1.12
<i>Mantled</i>	838	Walnut, each.....	1.12



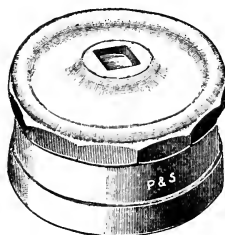
Nos. 917 and 918.



No. 936.



No. 845.



No. 33.

The "Bryant" S. P. Switch.

Code Word.	List No.	Capacity, 15 Amperes, each.	List Price.
<i>Apter</i>	917	Capacity, 15 Amperes, each.	\$1.00
<i>Antituted</i>	918	" 25 " "	1.20
<i>Ruleigh</i>	999	" 15 " with grooved base each	1.00
<i>Rinlston</i>	1000	" 25 " " " " "	1.20

Double Pole Ratchet Switch.

<i>Marooned</i>	936	5 Amperes, Bryant D. P. Ratchet Switch, each,	.75
<i>Marquis</i>	937	10 " " " " " "	1.00

Ratchet Double Pole China Switch.

Ten Amperes.

<i>Memorize</i>	845	White, each.	1.75
<i>Memory</i>	1845	Ivory " "	1.75
<i>Menace</i>	2845	Roman Gold, each.	2.25
<i>Mend</i>	846	Band " "	2.25
<i>Mender</i>	1846	Red, each.	2.00
<i>Mending</i>	2846	Blue, " "	2.00
<i>Mental</i>	847	Oak, " "	2.00
<i>Mental</i>	1847	Antique Oak, each.	2.00
<i>Mentally</i>	2847	Mahogany, " "	2.00
<i>Mention</i>	1848	Walnut, " "	2.00
<i>Mentioned</i>	848	Black, " "	1.75

"P. & S." Single Pole Switch.

This Switch is all china. The china cover operates the Switch, and there is no key or handle projecting. It is small and very neat in appearance. It has an absolutely quick double make and break, with rubbing contacts, and has an exceedingly long break.

<i>Matins</i>	33	5 Amperes, all china, each.	.25
<i>Mattress</i>	33½	5 " decorated china, each.	.45
<i>Matriz</i>	34	10 " all china, each.	.35
<i>Matrimony</i>	34½	10 " decorated china, each.	.55
<i>Matron</i>	35	5 " flush, all china, " "	.25
<i>Matronhood</i>	35½	5 " decorated china, each.	.45
<i>Matted</i>	36	10 " all china, each.	.35
<i>Matter</i>	36½	10 " decorated china, each.	.55

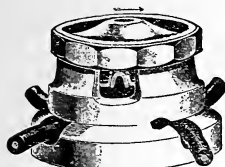


Fig. 1.

"P. & S." All China Switches.

3-Way Single Pole.

Code Word.	List No.	List Price.
<i>Roofing</i>	No. 135, 3-Way S. P. Switch, all white, each	\$.40
<i>Roofless</i>	No. 135½, 3-Way S. P. Switch, decorated, each	.70

Double Pole Switch.

Fig. 1 shows the Switch with back plate for open work. Fig. 2 shows the back plate for concealed work. The hollow projections D D are intended to extend through the lathing, thus thoroughly insulating the wires. Fasten the plate to the lathing by the screw B, the plastering being done so as to have the plate flush. To connect wires, remove plates AAAA from Switch, place them in recesses in back plate, bending the wires as shown in Fig. 2. The Switch is held by two screws, in holes C C. Fig. 3 shows under side of Switch with wires held by clamps AAAA.

In ordering state whether for concealed or open work.

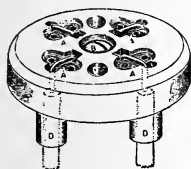


Fig. 2.

<i>Ringwell</i>	No. 134, 10 Ampere, D. P., all white, each	.40
<i>Roofless</i>	No. 134½, 10 " " decorated, " "	.70



Fig. 3.

"P. & S. Two-Circuit Switch.

This is a modification of No. 134 Switch, which makes it possible to control two circuits by the one switch in such a manner that either a part or all of the lamps may be used as desired by the operator.

In ordering state whether for concealed or open work.

<i>Roof</i>	20182 5 Ampere, all white, each	.40
<i>Roofless</i>	20183 5 " " decorated, " "	.70

Lazyman's Switch.

It is often convenient in residences, as well as in halls and stairways, to be able to light or extinguish a lamp from two points. This can be done as shown in cut. By reference to the diagram of the circuit, it will be seen that at either of the points A or B, the light or cluster of lights controlled by the switch can be turned on or off regardless of the position of the other switch.

In ordering state whether for concealed or open work.

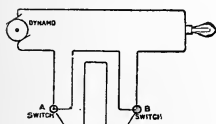


Diagram.

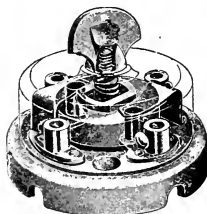
<i>Roofy</i>	20184 S. P. Lazyman's Switch, all white, each	.40
<i>Roofless</i>	20185 " " " decorated " "	.70



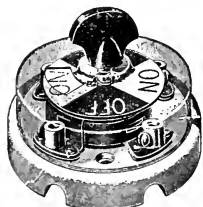
No. 841.



No. 20003.



No. 2213.



No. 20019.

The "Bryant" Standard Switch.

Code Word.	List No.	Double Pole.		List Price.
<i>Reese</i>	20008	10 Amperes, each.....		\$1.00
<i>Margia</i>	841	15 " "		1.50
<i>Marginal</i>	842	25 " "		2.00
<i>Margrue</i>	843	40 " "		3.00
<i>Marigold</i>	844	50 " "		3.50

With Grooved Base.

<i>Renick</i>	20003	10 Amperes	1.00
<i>Reno</i>	20004	15 "	1.50
<i>Renoen</i>	20005	25 "	2.00
<i>Reere</i>	20006	40 "	3.00
<i>Renfree</i>	20007	50 "	3.50

Perkins' Switches.

The Gibbs Switch.

<i>Marine</i>	2213	10 Amperes, double Pole, each	1.25
<i>Mariner</i>	2214	15 " " "	1.75
<i>Maritime</i>	2215	30 " " "	2.25
<i>Mark</i>	2216	10 " for conduit boxes, each	1.25
<i>Regina</i>	20009	50 " double pole, each	5.00
<i>Markel</i>	2217	3 Point, each	1.25
<i>Market</i>	2218	4 " "	1.25

The Gibbs Dial Switch.

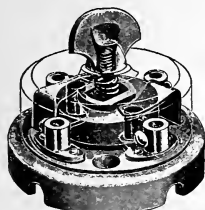
<i>Ramer</i>	20010	10 Amperes, D. P., each	1.75
<i>Runkleigh</i>	20011	15 " " "	2.25
<i>Runkinville</i>	20012	30 " " "	2.75
<i>Randolph</i>	20013	50 " " "	5.50

The Gibbs Dial Switch for 500 Volts.

<i>Rankin</i>	20014	3 Amperes, S. P., each	1.20
<i>Rapidan</i>	20015	10 " " "	3.75

The Gibbs 500 Volt Switch, No Dial.

<i>Racenswood</i>	20017	3 Amperes, S. P., each .....	.70
<i>Rarilins</i>	20018	10 " " "	3.25



No. 20116.

Perkins Switches—Continued.

Code Word.	List No.		List Price.
<i>Robust</i>	20116	No. 11, 5 Ampere, 120 Volt, S. P. each .....	.55
<i>Rocket</i>	20117	No. 16, 10 " 120 " " " " " .....	.70



No. 20020.

Gibbs 3 Wire Switch.

One of the most ingenious application of the Gibbs principle has been made to produce a switch which breaks simultaneously the three wires (each at two points) when used with the Edison 3 wire system.

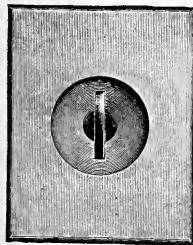
<i>Rayburn</i>	20020	For 3 Wire System each	3.00
----------------	--------------	------------------------------	------



No. 2229.

Perkins S. P. Switches.

<i>Mate</i>	2229	No. 20, 5 Amperes, composition handle, each ..	.50
<i>Mateless</i>	2230	" 21, 10 " " " "	.60



No. 20021.

Perkins Flush Plates.

<i>Regumand</i>	20021	For 1	Switch, Plate	3½ x 2½ inches	1.00
<i>Restor</i>	20022	" 1	" "	3½ x 3 "	1.25
<i>Redding</i>	20023	" "	" "	4½ x 3½ "	1.75
<i>Redfield</i>	20024	" 2	" "	5½ x 3½ "	2.00
<i>Redford</i>	20025	" 3	" "	8½ x 3½ "	3.00
<i>Redman</i>	20026	" 4	" "	5½ x 5½ "	4.00
<i>Redmak</i>	20027	" 5	" "	7 x 7 "	5.00
<i>Redman</i>	20028	" 6	" "	8½ x 5½ "	6.00
<i>Redfie</i>	20029	" 8	" "	10½ x 5½ "	8.00

The above price are for *plater only*.
Standard finish—Polished Brass or Nickel. Special finishes
supplied as desired.



No. 9378.



No. 9379.



No. 814.



No. 815.



No. 904.

Edison Flush Pocket Switches.

Code Word	List No.	Flush Pocket Switch, 10 Amp., 1 Switch	List Price.
<i>Ringwood</i>	9378	" " " 10 " 2 "	1.75
<i>Rio</i>	9379	" " " 10 " 3 "	3.00
<i>Ripley</i>	9380	" " " 10 " 4 "	4.50
<i>Ripon</i>	9381	" " " 10 " 4 " 1 row	6.00
<i>Ripleyville</i>	9382	" " " 10 " 4 " 2 rows	6.00
<i>Ritchie</i>	9383	" " " 10 " 6 "	8.50
<i>Riverside</i>	9384	" " " 10 " 8 "	11.00

Paiste Three Point Switches.

Metal Top.

<i>Counterplot</i>	814	5 Amperes, each...	.60
<i>Countess</i>	839	10 " " .....	.80

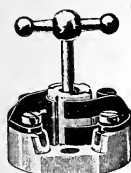
Paiste Three Point China Switch.

5 Amperes.

<i>Marred</i>	815	Cream White, each.....	.90
<i>Marriage</i>	816	White, each.....	.90
<i>Married</i>	817	Ivory, " .....	.90
<i>Marring</i>	818	Black, " .....	.90
<i>Marrow</i>	819	" Roman Gold " Flaked, each	1.25
<i>Marry</i>	820	Band Gold, each.....	1.25
<i>Marrying</i>	821	Red, each.....	1.00
<i>Mare</i>	822	Blue, "	1.00
<i>Marshal</i>	823	Oak, each.....	1.00
<i>Marshaled</i>	824	Antique Oak, each.....	1.00
<i>Marshaling</i>	825	Mahogany, each.....	1.00
<i>Marshy</i>	826	Walnut, each.....	1.00

10 Amperes.

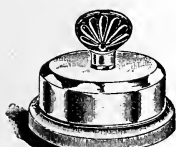
<i>Martyr</i>	904	White, each.....	1.50
<i>Martyrdom</i>	905	Ivory, "	1.50
<i>Marvel</i>	906	Black, "	1.50
<i>Marvelous</i>	907	" Roman Gold " Flaked, each	2.00
<i>Masculine</i>	908	Band Gold, each.....	2.00
<i>Mash</i>	909	Red, each.....	1.75
<i>Mashed</i>	910	Blue, "	1.75
<i>Mashing</i>	911	Oak, "	1.75
<i>Mashy</i>	912	Antique Oak, each.....	1.75
<i>Mask</i>	913	Mahogany, each.....	1.75
<i>Masked</i>	914	Walnut, each.....	1.75



No. 65097.

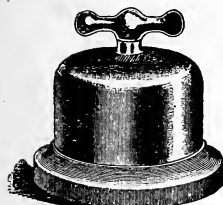
Edison Snap Switches.

These Switches have been designed to break circuits having a potential of not over 125 volts. Flush Pocket Switches of special designs will be furnished on special orders, to suit the finish of the room.



No. 67421.

<i>Enema</i>	65097	10 Amperes, D. P., for interior conduit, each....	.85
<i>Enlay</i>	67419	Single Pole Ratchet Switch, capacity 5 amperes, plain, each .....	.50
<i>Entwine</i>	67420	Single Pole Ratchet Switch, capacity 5 amperes, polished, each .....	.40
<i>Entwined</i>	67421	Single Pole Ratchet Switch, capacity 10 amperes, plain, each .....	.70
<i>Entwining</i>	67422	Single Pole Ratchet Switch, capacity 10 amperes, polished, each .....	.60



No. 65095.

<i>Epicure</i>	65095	10 Amperes, D. P., polished, each.....	.85
<i>Epidemic</i>	65096	10 " " nickeled, " .....	.85
<i>Epidemical</i>	65100	25 " " polished, "	1.40
<i>Epigram</i>	65102	25 " " nickeled, "	1.40
<i>Equal</i>	65120	50 " " polished, "	1.85
<i>Equaling</i>	65122	50 " " nickeled, "	1.85



No. 57568.

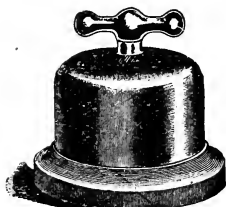
<i>Equality</i>	57568	10 Amperes, D. P., flush pocket, each	1.25
-----------------	-------	---	------



No. 60207.

Code Word.	List No.	List Price
<i>Equilizing</i>	60207	Push Button Switch, for flexible cord, 1 light, polished, each.....
<i>Reynolds</i>	9164	Push Button Switch, for flexible cord, 10 light, polished, each.....
		1.20

Edison Three-Way Vertical Snap Switch.



No. 65098.

<i>Minneater</i>	65098	Three-way Switch, polished, 10 amperes, each.	1.00
<i>Manful</i>	65099	" " nickeled, 10 " "	1.00
<i>Manfully</i>	65103	" " for interior conduit, 10 amperes, each.....	1.00
<i>Manfulness</i>	65104	Three-way Flush Pocket Switch, nickeled, 10 amperes, each.....	1.50

Hart Standard Switches.

These Switches are mounted on Porcelain only. The movement is rotary in one direction, by quarter turns, keeping contacts bright and free from dust, and giving the maximum length of break. The actuating spring is of the best steel wire, and as it is not in circuit, its temper cannot be affected by the current. The break is double in all sizes, and in the double pole switches the circuit is broken at four points. Although not illustrated in the cuts, all standard and flush switches, with the exception of the 50 ampere D. P., are furnished with the adjustable handle.

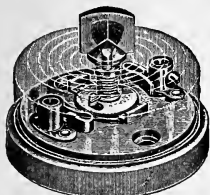


No. 8235.

Hart 5 Ampere Single Pole Switch.

Diameter of Base, $2\frac{1}{2}$ inches. Diameter of Cover, $1\frac{1}{2}$ inches. Height, to Base of Handle, $\frac{3}{4}$ inch. Total Height, $1\frac{1}{2}$ inches. Total Break, 1 inch. Binding Posts for Wire to No. 8 B. & S.

<i>Mansy</i>	8235	With Nickel Plated Cover, each.....	60
<i>Manically</i>	8236	" Polished Brass " "	60



No. 8237.

Hart 10 Ampere Single Pole Switch.

Diameter of Base, $2\frac{1}{2}$ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, $1\frac{1}{2}$ inches. Total Height, $1\frac{1}{2}$ inches. Total Break, $\frac{1}{2}$ inch. Binding Posts for Wire to No. 6 B. & S.

Code Word.	List No.	List Price.
<i>Escriment</i>	8237 With Nickel Plated Cover, each.....	\$.75
<i>Escrimental</i>	8238 " Polished Brass " " .....	.75

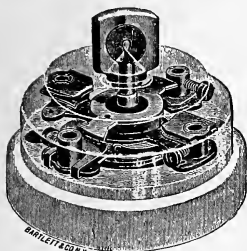


No. 8239.

Hart 10 Ampere Double Pole Switch.

Diameter of Base, $2\frac{1}{2}$ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, $1\frac{1}{2}$ inches. Total Height, $1\frac{1}{2}$ inches. Total Break, $1\frac{1}{2}$ inches. Binding Posts for Wire to No. 6 B. & S.

<i>Escrescence</i>	8239 With Nickel Plated Cover, each.....	1.35
<i>Escrescent</i>	8240 " Polished Brass " "	1.35

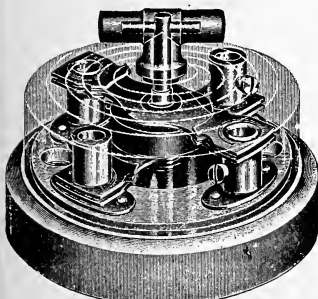


No. 8241 and No. 8243.

Hart 20 Ampere Double Pole Switch.

Diameter of Base, $2\frac{1}{2}$ inches. Diameter of Cover, $2\frac{1}{2}$ inches. Height, to Base of Handle, $1\frac{1}{2}$ inches. Total Height, $2\frac{1}{2}$ inches. Total Break, 3 inches. Binding Posts for Wire to No. 5 B. & S.

<i>Escrute</i>	8241 With Nickel Plated Cover, each.....	1.80
<i>Escruted</i>	8242 " Polished Brass " "	1.80



No. 8245.

Hart 35 Ampere Double Pole Switch.

Diameter of Base, $2\frac{1}{2}$ inches. Diameter of Cover, $2\frac{1}{2}$ inches. Height, to Base of Handle, $1\frac{1}{2}$ inches. Total Height, $2\frac{1}{2}$ inches. Total Break, 3 inches. Binding Posts for Wire to No. 5 B. & S.

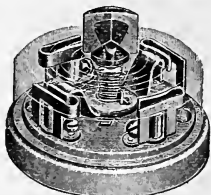
This Switch is the same as the 15 ampere double pole, except that the contacts and switch plates are made of phosphor bronze and hard rolled copper.

<i>Escruting</i>	8243 With Nickel Plated Cover, each....	2.25
<i>Escrution</i>	8244 " Polished Brass " "	2.25

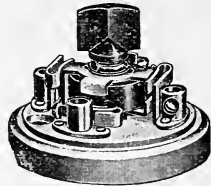
Hart 50 Ampere Double Pole Switch.

Diameter of Base, $4\frac{1}{2}$ inches. Diameter of Cover, 4 inches. Height, to Base of Handle, $2\frac{1}{2}$ inches. Total Height, $3\frac{1}{2}$ inches. Total Break, $3\frac{1}{2}$ inches. Binding Posts for Wire to No. 1 B. & S.

<i>Escrutive</i>	8245 With Nickel Plated Cover, each.....	4.50
<i>Escrutory</i>	8246 " Polished Brass " "	4.50



No. 8247.



No. 8248.

Code Word.
Excruciate
Excubated

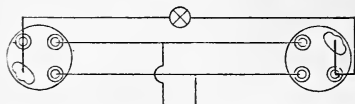
List No. 8247 With Nickel Plated Cover, each.....\$1.35
8248 " Polished Brass " " 1.35

Hart 10 Ampere Four-Way Switch.

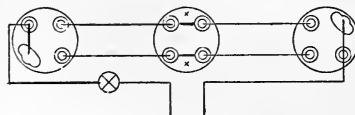
Diameter of Base, 2½ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 1½ inches. Total Height, 1¾ inches.

Counting
Country

8249 With Nickel Plated Cover, each..... 1.35
8250 " Polished Brass " " 1.35



The method of connection for Three-Point Switches is shown in the above diagram.



To control lights from three points or more the Hart 4-Point Switch is used. The above diagram shows the method of making connection.



Hart Flush Plates.

The Flush Plates are made of solid plate brass ½ inch thick instead of being formed up of thin sheet metal as formerly. No screws show on the surface of the face plate, either in the single or gang plates. Single flush plates are made for all sizes of Hart Switches. Gang plates are made for any number of switches. The stock sizes are for two, three, four, six and eight switches. Five and ten ampere switches may be put on the same gang plate. Prices and dimensions of 15 and 30 ampere gang plates will be furnished upon application.

The standard finishes are nickel, bronze and polished brass. We can furnish the plates in any finish, or to match any house hardware from sample of same.

Self-Adjusting Handle.

The collar has a vertical movement with reference to the body of the handle of 1-16 inch, and is held downward by a flat spring which it encloses and conceals. This spring-pressed collar holds the face-plate firmly against the wall with an easy, elastic pressure. The range of movement of the collar compensates for all variations liable to occur in the distance from the face of the plate to the porcelain base of the switch. This adjustment makes all handles, switches and face plates interchangeable. This adjustment is especially advantageous in gang plates. This adjustable handle is furnished with all Hart Standard and Flush Switches.

No. 1 Flush Plate.

ONE SWITCH.

Length, 3½ inch. Width, 2½ inch. Opening required for Switch, 2½ inch. diameter.

<i>Mastery</i>	8208	Plate only, nickel, each.....	1.20
<i>Mastership</i>	8209	" bronze, each.....	1.20
<i>Masticate</i>	8210	" brass, each.....	1.20

Hart Flush Plates—(Continued).**No. 1 A Flush Plate.**Length, $4\frac{1}{2}$ inch. Width, $3\frac{1}{2}$ inch

Code Word	List No.	List Price.
<i>Mastered</i>	8211 Plate only, nickel, each.....	\$1.50
<i>Mastering</i>	8212 " bronze, each.....	1.50
<i>Masterless</i>	8213 " brass, each.....	1.50

No. 1 B Flush Plate.**ONE SWITCH.**

This Plate is adapted for use with interior conduit branch boxes, and the Switches for use with same are our regular Switches, but with special porcelain basis, one and fifteen-sixteenths inches in diameter. The Switch is attached to a cast plate as with the standard Plates, and this Plate is clamped to the conduit box, and has an adjustment of one-sixteenth inch to allow for a variation in the setting of the box.

Diameter of Plate, $2\frac{1}{2}$ inch.

<i>Master</i>	8214 Plate only, nickel, each.....	1.20
<i>Mastered</i>	8215 " bronze, each.....	1.20
<i>Master</i>	8216 " brass, each.....	1.20

No. 1 C Lock Flush Plate.**ONE SWITCH.**

Length, $3\frac{3}{4}$ inch. Width, $2\frac{3}{8}$ inch. Opening required, $2\frac{1}{8}$ inch, diameter. One flat steel key is furnished with each Plate.

<i>Masker</i>	8217 Plate only, nickel, each.....	1.50
<i>Mason</i>	8218 " bronze, each.....	1.50
<i>Masonic</i>	8219 " brass, each.....	1.50

No. 2 Flush Plate**TWO SWITCHES.**

Length, $2\frac{3}{4}$ inch. Width, $2\frac{1}{2}$ inch. Opening required, $4\frac{1}{8} \times 2\frac{1}{8}$ inch.

These Plates can be furnished to special order with one Lock and one Handle Switch, the Lock Switch being connected in series with and controlling the use of the Handle Switch.

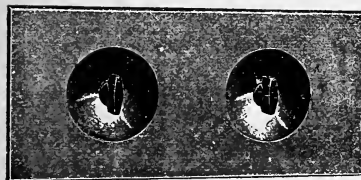
<i>Masonry</i>	8220 Plate only, nickel, each.....	2.40
<i>Masquerade</i>	8221 " bronze, each.....	2.40
<i>Mass</i>	8222 " brass, each.....	2.40



No. 8214.



No. 8217.



No. 8220

Hart Flush Plates—(Continued).

No. 3 Flush Plate.

THREE SWITCHES.

Length, $9\frac{1}{2}$ inch. Width, $3\frac{1}{2}$ inch. Opening required,
 $7\frac{3}{8} \times 2\frac{1}{8}$ inch.

Code Word.	List No.	List Price.
<i>Massacre</i>	8223 Plate only, nickel, each	\$ 3.60
<i>Massacred</i>	8224 " bronze, "	3.60
<i>Massive</i>	8225 " brass, "	3.60

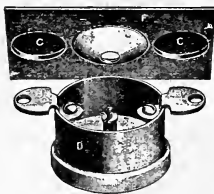


No. 4 Flush Plate.

FOUR SWITCHES.

Length, $6\frac{1}{2}$ inch. Width, $6\frac{1}{2}$ inch. Opening required,
 $4\frac{1}{2} \times 4\frac{1}{2}$ inch.

<i>Exhaust</i>	8226 Plate only, nickel, each	4.80
<i>Exhausted</i>	8227 " bronze, "	4.80
<i>Exhauster</i>	8228 " brass, "	4.80



No. 6 Flush Plate.

SIX SWITCHES.

Length, 9 $\frac{1}{2}$ inch. Width, $6\frac{1}{2}$ inch. Opening required,
 $7\frac{3}{8} \times 4\frac{1}{2}$ inch.

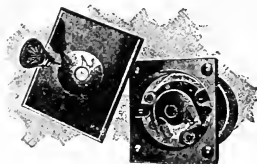
<i>Exhnl</i>	8229 Plate only, nickel, each	5.70
<i>Exhalation</i>	8230 " bronze, "	5.70
<i>Exhaling</i>	8231 " brass, "	5.70

No. 8 Flush Plate.

EIGHT SWITCHES.

Length, 12 inch. Width, $6\frac{1}{2}$ inch. Opening required,
 $10 \times 4\frac{1}{2}$ inch.

<i>Exhalent</i>	8232 Plate only, nickel, each	6.60
<i>Exhalation</i>	8233 " bronze, "	6.60
<i>Exhale</i>	8234 " brass, "	6.60



No. 915.

Paiste Flush Switch.

<i>Manual</i>	915 Single pole, 10 amperes, each	1.30
<i>Manually</i>	916 Three point, 10 "	1.50

With nickel face plates. Special finishes to order.



No. 2219.

Perkins Flush Switch.

Diameter of base, $2\frac{1}{4}$ inches. Length of plate, $3\frac{3}{4}$ inches. Width, $2\frac{1}{4}$ inches.

Flush Switches Nos. 12 and 61 are supplied with composition handles, which is the only handle that can be used with No. 61, but the double pole Switches will be furnished with metal handles if desired.

This Switch is made in three or four point, with or without flush plates.

Code Word.	List No.	List Price.
<i>Manuscript</i>	2219 No. 52, 10 Amperes, D. P., flush, each.....	\$2.25
<i>Map</i>	2220 " 53, 10 " " with key, each.....	2.50
<i>Maple</i>	2221 " 61, 10 " single pole, each.....	1.75

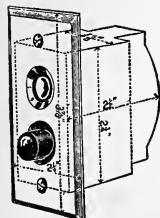
For 220 volts; will take wire up to No. 7 B. & S.



No. 241 to 246.

C-S Flush Double Push Switch.

<i>Discerning</i>	241	10 Ampere, Single Pole, Double Break, Nickel Face, each.....	2.00
<i>Discerningly</i>	242	10 Ampere, Single Pole, Double Break, Brass Face, each.....	2.00
<i>Discharged</i>	245	15 Ampere, Double Pole, Double Break, Nickel Face, each.....	2.50
<i>Discharging</i>	246	15 Ampere, Double Pole, Double Break, Brass Face, each.....	2.50

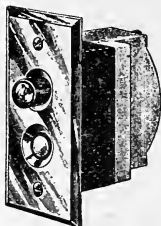


No. 241 to 246.

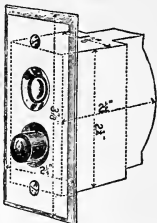
FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICKEL.

Silver, Silver Oxidized, Silver Mottled, Bronze, Bronze Oxidized, Copper Oxidized, extra beyond polished brass or nickel.....	.25
Bower Barfe. ....	.50
Gold.....	.75

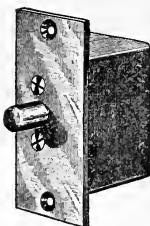
Other colors or specially designed face plates, special. Unless otherwise specified, nickel will be sent.



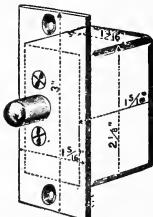
No. 247 to 250.



No. 247 to 250.



No. 251.



No. 251.

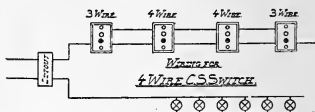
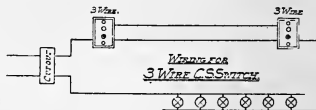
C-S Flush Commutation Switch.

Code Word	List No.	List Price.
<i>Dischurck</i>	247 5 Ampere, Four Wire, Nickel Face, each.....	\$4.00
<i>Dischurched</i>	248 5 " " " " Brass " "	4.00
<i>Disciple</i>	249 10 " " Three " Nickel " "	2.50
<i>Discipline</i>	250 10 " " " " Brass " "	2.50

FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICKEL.

Silver, Silver Oxidized, Silver Mottled, Bronze, Bronze Oxidized, Copper Oxidized, extra beyond polished brass or nickel.....	.25
Bower Barfe.....	.50
Gold.....	75

Other colors or specially designed face plates, special.
Unless otherwise specified, nickel will be sent.



C-S Flush Automatic Switch.

STRICTLY AUTOMATIC.—Opening door turns on the light ; closing door shuts off light. Obviates necessity of placing Switch on outside of a dark room. Adapted also to be set underneath striker-plate of door-lock, so that unlocking door from outside turns on light, while locking it from outside turns it off.

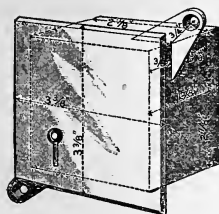
EFFICIENT BURGLAR ALARM.—Intruder confronted by a bright light immediately upon opening a door.

Disclose

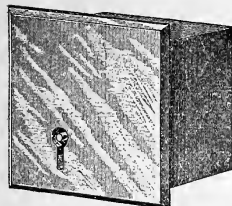
251 5 Ampere, Single Pole, Brass Face, each..... 2.00



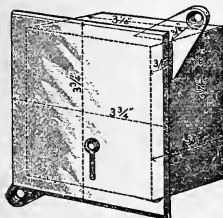
No. 254 to 258.



No. 254 to 258.



No. 259 and 260.



No. 259 and 260.

C-S Flush Key Switch.

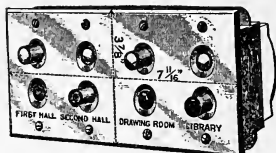
Code Word.	List No.	List Price.
<i>Discolor</i>	254	15 Ampere, Double Pole, Double Break, Nickel Face, each..... 2.50
<i>Discomfort</i>	255	15 Ampere, Double Pole, Double Break, Brass Face, each..... 2.50
<i>Discomfortable</i>	256	10 Ampere, Three Wire, Double Break, Nickel Face, each..... 2.50
<i>Discomforted</i>	257	10 Ampere, Three Wire, Double Break, Brass Face, each..... 2.50
<i>Discomforting</i>	258	Keys, per dozen..... 1.25

<i>Disciplined</i>	259	10 Ampere, Single Pole, Double Break, Nickel Face, each..... 2.00
<i>Disclaim</i>	260	10 Ampere, Single Pole, Double Break, Brass Face, each..... 2.00
<i>Disclaimer</i>	261	Keys, per dozen..... 1.25

FACE PLATES IN COLORS OTHER THAN POLISHED BRASS OR NICKEL.

Silver, Silver Oxidized, Silver Mottled, Bronze, Bronze Oxidized, Bronze Mottled, extra beyond polished brass or nickel, each.....	.25
Bower Barfe.....	.50
Gold.....	.75

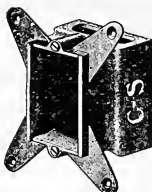
Other colors or specially prepared face plates, special. In ordering, state particularly the kind of box wanted, whether with or without lugs.



Size of Gang Face Plate, Four Switches.



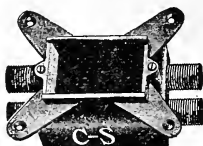
No. 262.



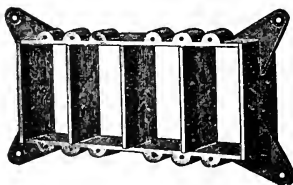
No. 20114.



No. 263.



No., 20115.



Iron Wall Box, Four Switches.

C-S Flush Switch Accessories.

GANG FACE PLATES FOR DOUBLE PUSH SWITCH.

A comparison between the cut of plate for a single Switch and that of gang face plate for four Switches will show that by using the gang plate a saving of wall space of about $1\frac{1}{8} \times 3\frac{1}{2}$ is effected, besides presenting a better appearance than by placing four face plates side by side. In like manner, the gang face plate for six Switches saves a wall space of $2\frac{1}{8} \times 3\frac{1}{2}$.

For Switches complete, in gangs, up to six Switches in gang, without iron boxes, same price as for same number singly.

Beyond 6 Switches in gang, special.

Wooden Mat.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concealing the broken edges of the plastering made in cutting away for the switch body

Code Word.	List No.	List Price.
<i>Discommode</i>	262	Wooden Mats, single switch, each.....\$0.30
		Each additional switch, to and including 6 switches. .15

Mats beyond 6 switches, special.

Iron Wall Box.

The Iron Wall Box is intended to be put in while the building is in process of construction. The edge of the box comes flush with the plastering. Furnished singly or in gangs of 2, 3, 4, 5 and 6.

<i>Discommode</i>	263	Iron Wall Box, single switch, each.....	.15
		Each additional switch, to and including 6 switches	.12

Boxes beyond 6 switches, special.

<i>Robe</i>	20114	For 1 Switch.....	.45
		Each additional Switch.....	.36

Hole in top and bottom of box is arranged for reception of two $\frac{3}{8}$ or $\frac{1}{2}$ inch brass, iron, or circular loom conduits.

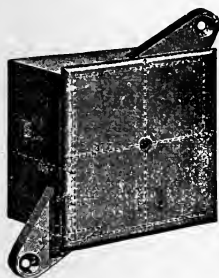
<i>Robinet</i>	20115	For 1 Switch.....	.75
		Each additional Switch.....	.50

Box fitted with nipples for either $\frac{3}{8}$ or $\frac{1}{2}$ inch iron conduit, or, if preferred, tapped for either size tube. In ordering styles "Robe" and "Robinet" state particularly What size or fitting of conduit is required.

Dimensions of Iron Wall Boxes.

No. Switches.	Length.	Breadth.	Depth.
1	$2\frac{1}{8}$	$3\frac{1}{8}$	$1\frac{1}{8}$
2	$3\frac{1}{2}$	$3\frac{1}{8}$	$1\frac{1}{8}$
3	$5\frac{1}{8}$	$3\frac{1}{8}$	$1\frac{1}{8}$
4	$7\frac{1}{8}$	$3\frac{1}{8}$	$1\frac{1}{8}$
5	$9\frac{1}{8}$	$3\frac{1}{8}$	$1\frac{1}{8}$
6	11	$3\frac{1}{8}$	$1\frac{1}{8}$

Lock Switches.



Perkins Lock Switch.

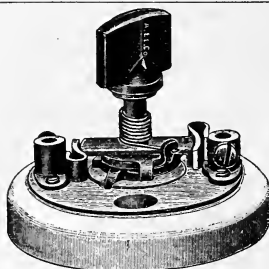
Code Word.	List No.	List Price.
<i>Marbled</i>	2222 No. 40, 10 Amperes, double polc, each	\$3.75
<i>March</i>	2223 " 41, 15 " " " "	4.50

Nos. 40 and 41 are especially adapted for use where it is desirable that only authorized persons should have access to the Switch, for which purpose a spring lock fastens the flush plate to the cast iron box containing the Switch, and no one unprovided with a specially designed key can either remove the plate or turn the Switch.

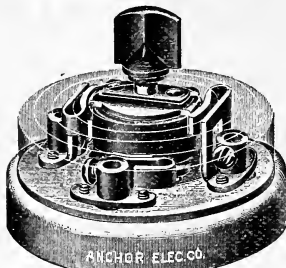


Bryant Chandelier Switch.

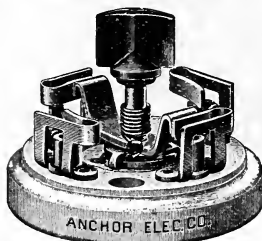
<i>Exceptions</i>	947	5 Ampere, complete with 6-foot Chain and Ring,	
		each.....	1.50
		Extra Brass Chain, per foot.....	.05
		Extra Brass Rings.....	.05



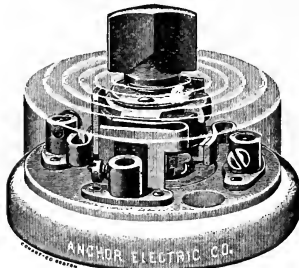
No. 20066.



No. 20069.



No. 20072.



No. 20073.

Anchor Switches.

Single Pole.

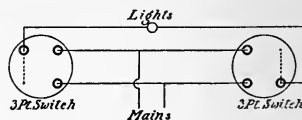
Code Word.	List No.		List Price, Each.
<i>Rocklund</i>	20066	5 Amperes, S. P.	\$.27
<i>Rock river</i>	20067	10 " " . . . . .	.33
<i>Rock side</i>	20068	10 " " 500 Volt	1.26

Double Pole.

<i>Rock springs</i>	20069	10 Amperes, D. P. . . . .	.63
<i>Rockton</i>	20070	20 " "	1.00
<i>Rockville</i>	20071	30 " "	1.26

Three Point.

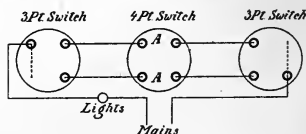
Three point Switches are used to control lights from either one of two points. The method of connection is shown herewith.



<i>Rocky run</i>	20072	10 Amperes, 3 pt. Switch.	60
------------------	-------	-----------------------------------	----

Four Point.

To control lights from three or more points, two 3 pt. switches are used at two of the points, and a 4 pt. switch at each additional point up to any desired number. The method of connection is shown below.



<i>Rock pie</i>	20073	4 pt. switch.90
-----------------	-------	-----------------------	-----



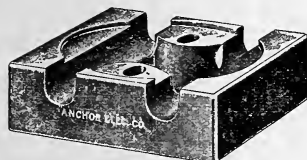
No. 20074.



Anchor Switches.

Key Switch.

Code Word.	List No.		List Price, Each.
<i>Rod</i>	20074	5 Amperes, S. P., Key.....	\$.63
<i>Rodney</i>	20075	10 " " ".....	.69
<i>Rod corner</i>	20076	10 " 3 pt. ".....	.96
<i>Rod point</i>	20077	10 " 4 " ".....	1.26
<i>Rod place</i>	20078	10 " S P., 500 volt, Key.....	1.62
<i>Rod town</i>	20079	10 " D. P., Key.....	.99
<i>Rodville</i>	20080	20 " " ".....	1.36
<i>Roddy</i>	20081	30 " " ".....	1.62



No. 20082-20083.

Anchor Square Switchblock.

Of great convenience in leading in wires to switch, in moulded or cleat work.

<i>Rod tree</i>	20082	Fits 5, 10 Amp. S. P., 10 Amp., D. P.....	.12
<i>Rod stick</i>	20083	Fits 20 and 30 Amp., D. P.....	.14

Anchor Push Button Switches.

These Switches are made in "gangs" to order. Switches are finished regularly in nickel.

Special finishes, copper, silver, bronzes, etc., also to imitate onyx, pearl, etc., to order.

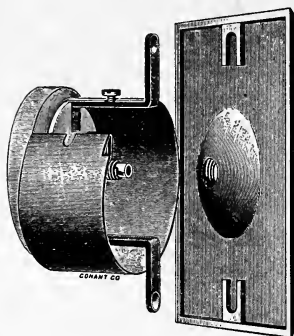


No. 20084.

<i>Rod aim</i>	20084	20 Amperes, D. P.....	2.50
<i>Rod shoot</i>	20085	20 " S. P.....	2.00
<i>Rod hill</i>	20086	20 " 3 pt.....	2.50
<i>Rod mont</i>	20087	20 " 4 pt.....	4.00

Cast Iron Pockets for Anchor Switches.

<i>Rod mill</i>	20089	Pocket for 1 Switch.....	.15
<i>Rod pond</i>	20090	" 2 ".....	.27
<i>Rod gun</i>	20091	" 3 ".....	.39
<i>Rod city</i>	20092	" 4 ".....	.51
<i>Rod farm</i>	20093	" 5 ".....	.63
<i>Rod house</i>	20094	" 6 ".....	.75
<i>Rod burn</i>	20095	" 8 ".....	.87



Anchor Flush Plates.

The following prices are for plates only. To obtain the net price of the plate and switches complete, add the net price of the plate to the net price of such switches as are desired.

Keys for each switch, extra each	.....	.30
Special finish, bronze, copper, etc., each plate extra each	.....	.25 to 1.00
Enamel imitating marble, onyx, pearl, etc., each plate extra each	.....	1.00 to 5.00

The Anchor Flush Plates are made, except the single switch, of solid plates, one-eighth inch thick, which finish with a smooth surface.

The handle is so designed as to be practically flush.

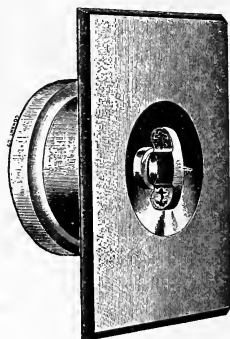
A spring beneath the handle makes the plate absolutely rigid.

Note the feature of the removable shell; by simply loosening one screw the shell may be removed for wiring.

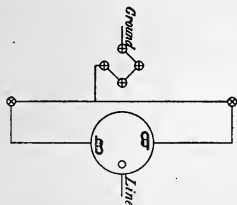
The standard finish is nickel. We can furnish the plates in any finish, or to match any house hardware, from sample, at slight extra cost, also enameled to match onyx, marble, pearl, etc. The plates project one-eighth inch from face on wall, the switch itself being recessed in the wall. The depth of recess required is given in table below. In the multiple plates any or all of the switches may be "lock" and of any size given below.

We make to order plates of any desired size other than given, and for any number of switches.

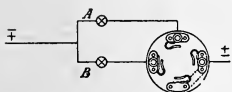
In ordering use catalogue number of plate and specify the size of switch. When special finish is required send a sample with order.



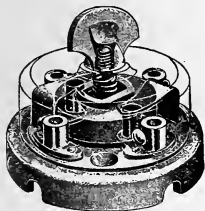
Code Word	List No.		No. of Switches on plate.	Size of Plate.	Horizontal Length Recess.	Depth Recess.	Vertical Length Recess.	List Price.
<i>Rour</i>	20096	5 and 10 amp., S. P.	1	3½ x 3	2 1/8	2 1/8	1 1/2	.60
<i>Rouring</i>	20097	" " "	2	3½ x 5 1/2	2 1/8	4 1/2	1 1/2	2.10
<i>Rouring Creek</i>	20098	" " "	3	3½ x 7 1/8	2 1/8	6 3/8	1 1/2	3.30
<i>Rob</i>	20099	" " "	4	5½ x 5 1/2	4 1/2	4 1/2	1 1/2	4.20
<i>Roberts</i>	20100	" " "	6	5½ x 7 1/8	4 1/2	6 3/8	1 1/2	5.40
<i>Roberts Creek</i>	20101	" " "	8	5½ x 10	4 1/2	8 1/2	1 1/2	6.75
<i>Robin</i>	20102	3 pt, 4 pt and 10 amp., D. P.	1	3½ x 3	2 3/8	2 3/8	1 1/2	.60
<i>Robinson</i>	20103	" " "	2	3½ x 6 1/2	2 3/8	4 1/2	1 1/2	2.10
<i>Robinsdul</i>	20104	" " "	3	3½ x 8 1/8	2 3/8	7 1/8	1 1/2	3.30
<i>Rock</i>	20105	" " "	4	6 1/2 x 6 1/2	4 1/2	4 1/2	1 1/2	4.20
<i>Rockbridge</i>	20106	" " "	6	6 1/2 x 8 1/8	4 1/2	7 1/8	1 1/2	5.40
<i>Rock Creek</i>	20107	" " "	8	6 1/2 x 11	4 1/2	9 1/2	1 1/2	6.75
<i>Rock Cut</i>	20108	20 and 30 amp., D. P.	1	4 1/2 x 4 1/2	3 1/2	3 1/2	1 1/2	1.00
<i>Rockdale</i>	20109	" " "	2	4 1/2 x 7 1/2	3 1/2	6 1/2	1 1/2	2.25
<i>Rock Elm</i>	20110	" " "	3	4 1/2 x 11	3 1/2	9 1/2	1 1/2	3.50
<i>Rock Falls</i>	20111	" " "	4	7 1/2 x 7 1/2	6 1/2	6 1/2	1 1/2	4.75
<i>Rock Field</i>	20112	" " "	6	7 1/2 x 11	6 1/2	9 1/2	1 1/2	6.00
<i>Rock Hill</i>	20113	" " "	8	7 1/2 x 11 1/2	6 1/2	12 1/2	1 1/2	7.25



Connections for Two Circuit Switch.



Connections for No. 9 and Dimmer Switch.



No. 20016.

Special Switches.

Hart Two Circuit Switch, 10 Ampere.

This Switch is especially designed for lights in electric street cars, where there are four lights inside the car and one at each end outside. The four lights inside, and one "end" light, are turned "on" and "off" successively, by the first half revolution of the switch handle. The second half revolution of the handle turns "on" and "off" the inside lights and the other "end" light.

Hart No. 9 Switch, 10 Ampere.

The first quarter turn of the handle lights a portion of the lamps on an electrolizer; the second quarter turn lights the balance of the lamps. The third quarter turn puts out those last lighted, and the fourth quarter turn puts out those first lighted.

Hart Dimmer Switch.

This switch is used with two lamps in series, for "night lights." The first quarter turn connects the lamps in series, giving a dim light. The second quarter turn short-circuits one of the lamps, allowing the other to burn to full candle power. The third quarter turn connects them again in series, and the fourth quarter turn opens the circuit.

The price of above switches is the same as the net price of the 10 Ampere D. P. Hart Switch.

Head-Light Switch.

3 Point, 3 Amperes, 500 Volts, Double Break.

This switch will break the circuit, no additional switch being required for that purpose.

The Head-Light Switch is used in street cars when it is desired to put in circuit with the interior lights either one of the head-lights. The method of connection is shown in Figure 1. It can also be used to put in circuit with the interior lights, either head-light and the vestibule light at other end of car.

Figure 2 shows the connections for 3 interior lights, front head-light and rear vestibule light.

Figure 3 shows connections for 8 interior lights, front head-light and rear vestibule light.

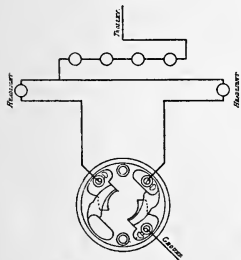


Fig. 1

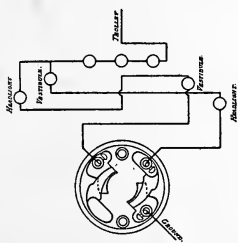


Fig. 2

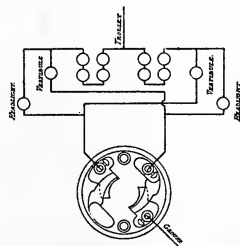
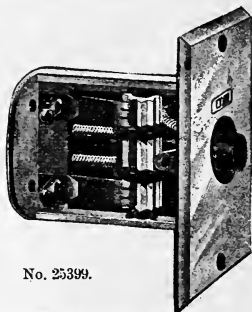
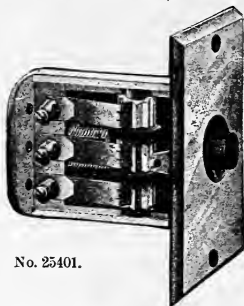


Fig. 3



No. 25399.

Single Pole showing Cap removed.



No. 25401.

Three-Way showing Cap removed.

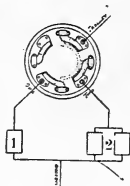
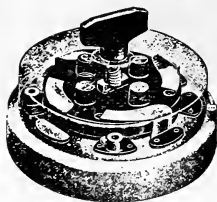


Diagram of Connections.

New York Flush Switch.

(PATENTED.)

Operated with a single button. Alternate pushes turn lights off or on. Single and Double Pole Switches have indicating dials as shown in cut.

The working parts are entirely of metal and cast welded glass. Cast welded glass is the best known insulator for a purpose of this kind and will not absorb a particle of moisture, even if it should become cracked or chipped.

		List Price, Each.
<i>Acropous</i>	25399 Single Pole.....	\$1.70
<i>Acurus</i>	25400 Double Pole.....	2.00
<i>Acotalectic</i>	25401 Three Way.....	2.00

Stock switches finished with nickel plated face plates. Special finishes furnished on short notice.

Heat Regulating Switch.

15 Amperes, 500 Volts, Quadruple Break.

The handle upon being turned from left to right, raises by means of a screw thread cut thereon, a nut loose in the insulating block, which is then carried forward, as soon as released from a lock in the base, with great rapidity, and after a quarter revolution drops again into a lock.

The parts revolve in one direction only.

The loose contact pins, allow automatic adjustment between the points, so that when "made," contact is assured with every point by the pressure of strong spring copper brushes upon one end of the pin, forcing the other against the adjoining contact plates.

When in contact, the insulating block is free to move slightly in any direction, and can not possibly bind the contact pins.

The four simultaneous breaks of the circuit each time the switch is turned from one position to the next reduces the sparking to a minimum.

The Heat Regulating Switch is used for the regulation of heat by different combinations of the heaters.

On the commutator are four raised bosses or dials on which are printed "OFF," "1," "2," "3," respectively. These dials appear successively before a hole in the cover, and thus indicate the position of contacts in commutator.

From the "off" position, as indicated by dial, the first quarter turn connects in circuit the heaters No. 1, and figure 1 appears on dial.

The second turn throws out of circuit heaters No. 1 and connects in circuit heaters No. 2, and figure 2 appears on dial.

Heaters No. 2 being of greater capacity than No. 1, a larger amount of heat is generated.

The third turn connects heaters No. 1 and No. 2 in parallel, which gives the maximum amount of heat, and figure 3 appears on dial.

The H L Switch.

This switch is specially adapted for use in connection with a door for automatically throwing incandescent lamps in and out of circuit. It is circular in form, allowing it to be mounted in the casement of a door or in the wall with very little trouble—it being only necessary to bore a hole the size of the switch shell. It is made either as a single pole double break switch or a 3-point switch. It is mechanically strong and has a long, quick break. It may be used on 110 or 220 volt circuits. It will break three amperes at 220 volts and 5 amperes at 110 volts. Its carrying capacity at any voltage less than 110 volts is rated at 5 amperes.

When the door is opened the push projects forward, actuated by a spring. This movement turns the lights on. The closing of the door simply sets the switch in position ready to turn off the lights as soon as the door is opened again but while the door remains closed the lights continue to burn. When the door is opened the second time the lights are turned off.

This switch is designed specially for bathrooms, telephone booths and vaults, where the person entering the room desires to turn on the lights and at the same time close the door and upon leaving the room desires the lights to be turned off automatically. This switch may also be used for lighting long hallways where light is wanted only while a person is passing through the hall. A switch of the 3-point description being placed in each door, when the door at one end of the hall is opened the lights are turned on and the opening of the door at the other end turns them off.

<i>Acoustical</i>	25405	Single Pole	\$3.00
<i>Acoustical</i>	25406	Three Point	5.00

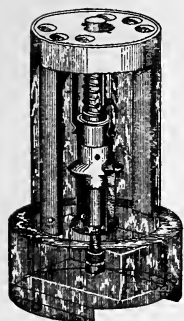
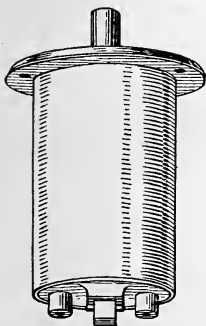
Door and Closet Switches.

The object of these Switches is to furnish a device that will automatically throw on or off the incandescent lights as desired.

The door switch has one end arranged to take the place of that part of the lock which is fastened in the door jamb and into which the bolt of the lock fits when the door is locked. The bolt of the lock presses upon a projection of the switch which throws off the lights when the bolt is withdrawn from the jamb. By unlock the door the projection of the switch is released and the lights are turned on.

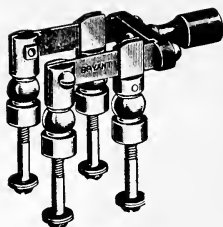
This same principle is used in the closet switch, excepting that the projection which operates the mechanism of the switch extends about one-fourth inch beyond the flush surface of the switch.

The switch is placed in the jamb of the door to which the hinges of the door are fastened. When the door is closed it depresses the projection so that it becomes flush with the door jamb and this turns off the lights. The opening of the door releases the switch and the and the lamps are turned on.



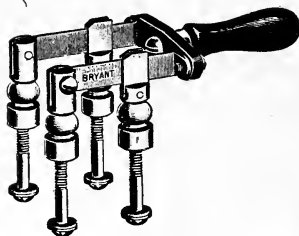
No. 25071

<i>Somner</i>	25071	Door Switch, each	1.25
<i>Somner</i>	25072	Closet Switch, "	1.25

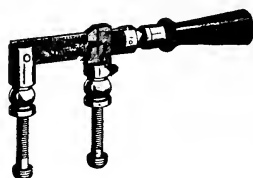


BUTTON HANDLE.

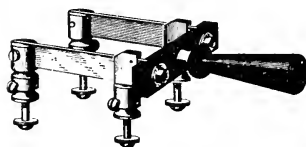
Unmounted Switches, Types "A" and "B" furnished with above style of handle only when specified.



No. 25328.



No. 25332.



No. 25343.

Baby Knife Unmounted Switches.

NOTE.—Prices on Unmounted Switches do not include Screws.

Screws of any size and length furnished at cost.

For Tablet Board Work. Type A.

Code Word.	List No.			List Price.
<i>Ring</i>	20053	15 Amp., S. P. S. T.,	Unmounted, each.....	\$.30
<i>Ringlet</i>	20054	" D. P. S. T.	" ".....	.50
<i>Rib</i>	20055	" S. P. D. T.,	" ".....	.50
<i>Rio Break</i>	20056	" D. P. D. T.	" ".....	.70
<i>Riplet</i>	20057	" 3 Wire, S. T.	" ".....	.80
<i>Ripo</i>	20058	" S. P. S. T.	" ".....	.35
<i>Rising</i>	20059	" D. P. S. T.	" ".....	.60
<i>Ritrock</i>	20060	" S. P. D. T.	" ".....	.70
<i>Riverdane</i>	20061	" D. P. D. T.	" ".....	.90
<i>Riverfalls</i>	20062	" 3 Wire, S. T.	" ".....	1.00
<i>Acapella</i>	25397	" 3 Wire, D. T.	" ".....	1.00
<i>Acaridan</i>	25398	" 3 Wire, D. T.	" ".....	1.20

Type "B" Unmounted Knife Switches.

Code Word.	List No.	B. E. No.		List Price.
<i>Abstenuously</i>	25328	1103	15 amp., double pole, single throw ...	\$0.32
<i>Abstenuously</i>	25329	1152	" " " double throw...	.50
<i>Abstention</i>	25330	1075	" " " single throw...	.36
<i>Abstergent</i>	25331	1153	" " " double throw...	.60

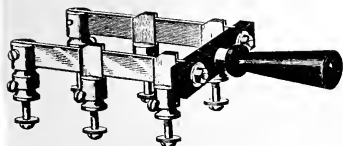
Type "C" Unmounted Knife Switches.

Single Break.

<i>Absternium</i>	25332	1160	35 amp., S. P., single throw.....	.60
<i>Absternite</i>	25333	1161	" " " double throw.....	.70
<i>Absternice</i>	25334	1162	" " " single throw, fusible ...	.70
<i>Risgerhead</i>	20063	1059	" D. P., single throw.....	.90
<i>Ricersi</i>	20064	1060	" " " single throw, fusible ...	1.30
<i>Ricernution</i>	20065	1061	" " " double throw.....	1.30
<i>Absternency</i>	25335	1154	" Three P., single throw.....	1.50
<i>Absternent</i>	25336	1155	" " " double throw.....	1.80
<i>Absternently</i>	25337	1156	" " " single throw, fusible ...	1.80
<i>Abstorted</i>	25338	1157	" " " double throw, fusible ...	2.00
<i>Abstracted</i>	25339	1205	" S. P., single throw.....	.80
<i>Abstractedly</i>	25340	1206	" " " double throw.....	1.20
<i>Abstractedlyness</i>	25341	1207	" " " single throw, fusible ...	1.20
<i>Abstraction</i>	25342	1225	" " " double throw, fusible ...	1.40
<i>Absterntor</i>	25343	1208	" D. P., single throw.....	1.20
<i>Absterntone</i>	25344	1209	" " " double throw.....	1.80
<i>Absterntitions</i>	25345	1210	" " " single throw, fusible ...	1.80
<i>Absterntive</i>	25346	1226	" " " double throw, fusible ...	2.20
<i>Absterntively</i>	25347	1211	" Three P., single throw.....	2.40
<i>Absterntly</i>	25348	1212	" " " double throw.....	3.60
<i>Absterntness</i>	25349	1213	" " " single throw, fusible ...	3.60
<i>Absternted</i>	25350	1125	" " " double throw, fusible ...	4.00

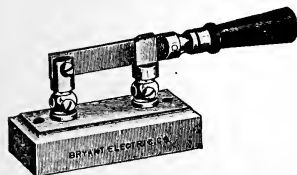
Type "E" Double Break Knife Switches.

Unmounted.



No. 25355.

Code Word.	List No	B. E. Co. No.		List Price. Each
<i>Abstringe</i>	25351	1214	50 amp., S. P., single throw	1.00
<i>Abstrude</i>	25352	1215	50 " " double throw	1.70
<i>Abstrusely</i>	25353	1216	50 " " single throw, fusible	1.70
<i>Abstruseness</i>	25354	1223	50 " " double throw, fusible	2.00
<i>Abstrusion</i>	25355	1217	50 " D. P., single throw	1.50
<i>Abstrusity</i>	25356	1218	50 " " double throw	2.30
<i>Absume</i>	25357	1219	50 " " single throw, fusible	2.30
<i>Absumption</i>	25358	1224	50 " " double throw, fusible	3.00
<i>Abstrudens</i>	25359	1220	50 " Three P., single throw	3.00
<i>Abuna</i>	25360	1221	50 " " double throw	4.30
<i>Abundant</i>	25361	1222	50 " " single throw, fusible	4.30
<i>Abundantly</i>	25362	1126	50 " " double throw, fusible	4.50



No. 20040.

Type "A" Baby Knife Switches.

Single Throw.—Porcelain Base.

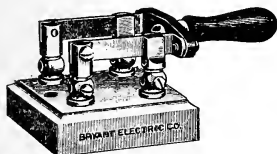
<i>Richhill</i>	20040	1001	15 amperes, S. P. S. T.	\$.30
<i>Richford</i>	20041	974	15 " D. P. S. T.	.50
<i>Richland</i>	20042	1052	15 " 3 Wire, S. T.	.80
<i>Richmond</i>	20043	977	25 " S. P. S. T.	.36
<i>Richview</i>	20044	978	25 " D. P. S. T.	.60
<i>Richmond</i>	20045	979	25 " 3 Wire, S. T.	1.00

Double Throw.—Porcelain Base.

<i>Ridge</i>	20046	1039	15 amperes, S. P. D. T.	.50
<i>Ridgewood</i>	20047	1041	15 " D. P. D. T.	.80
<i>Ridgeroad</i>	20048	1040	25 " S. P. D. T.	.70
<i>Ridgetop</i>	20049	1042	25 " D. P. D. T.	1.00

Slate Base.

<i>Abusable</i>	25363	1158	15 amperes, 3 Pole, D. T.	1.20
<i>Abusage</i>	25364	1159	25 " " "	1.40

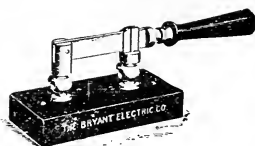


No. 25366.

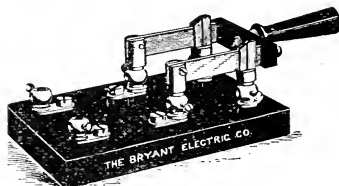
Type "B" Baby Knife Switches.

Single Throw.—Porcelain Base.

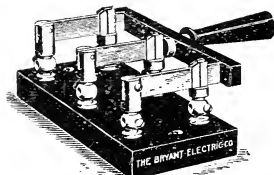
<i>Abuseful</i>	25365	1102	15 amperes, D. P. S. T.	.35
<i>Abuser</i>	25366	1074	25 " " "	.40



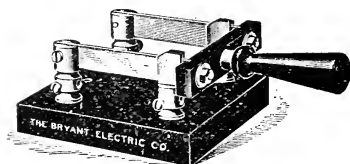
No. 25347.



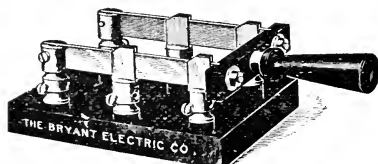
No. 20052.



No. 25376.



No. 25382.



No. 25395.

Type "C" Single Break Knife Switches.

Single Pole, Slate Base.

CodeWord.	List No.	B. E. No.		List Price. Each.
<i>Abnison</i>	25367	1147	35 amperes, S. P. S. T.	1.80
<i>Abnistrily</i>	25368	1187	50 " " "	1.00
<i>Abnistriness</i>	25369	1148	35 " S. P. D. T.	1.10
<i>Abutter</i>	25370	1188	50 " " "	1.40
<i>Abolote</i>	25371	1149	55 " S. P. S. T. fusible	1.30
<i>Abolotion</i>	25372	1189	50 " S. P. S. T. " "	1.60

Double Pole, Slate Base.

<i>Ridgeville</i>	20050	1043	35 amperes, D. P. S. T.	1.00
<i>Abj</i>	25373	1190	50 " " "	1.20
<i>Riley</i>	20052	1044	35 " D. P. S. T. for fuse	1.50
<i>Abysmut</i>	25374	1192	50 " " "	1.90
<i>Ridgeway</i>	20051	1045	35 " D. P. D. T.	1.50
<i>Abysmull</i>	25375	1191	50 " " "	1.90

Three Pole, Slate Base.

<i>Abysmition</i>	25376	1099	35 amperes, three pole, S. T.	1.50
<i>Acacia</i>	25377	1193	50 " " "	2.50
<i>Academite</i>	25378	1101	35 " " D. T.	2.25
<i>Academical</i>	25379	1194	50 " " "	3.60
<i>Academician</i>	25380	1100	35 " " for fuse, S. T.	2.50
<i>Academic</i>	25381	1195	50 " " S. T.	3.80

Type "D" Knife Switches.

Mounted on Porcelain Base, which can be furnished either Black Enamelled or White Glazed.

Single Break.

<i>Academical</i>	25382	1184	50 amperes, double pole, single throw, with black enamelled base	1.40
<i>Academician</i>	25383	1185	50 amperes, double pole, single throw, with white glazed base	1.40

Double Break.

<i>Academism</i>	25384	1236	50 amperes, double pole, single throw, with black enamelled base	2.00
<i>Academist</i>	25385	1237	50 amperes, double pole, single throw, with white glazed base	2.00
<i>Acution</i>	25386	1238	35 amperes, double pole, single throw, with black enamelled base	1.50
<i>Acuteplish</i>	25387	1230	35 amperes, double pole, single throw, with white glazed base	1.50

Porcelain is superior to slate as an insulator, and is much stronger.

Type "E" Double Break Knife Switches.

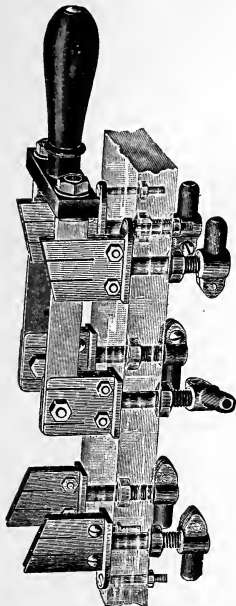
Slate Base.

<i>Acuteplish</i>	25388	1190	50 amperes, double pole, single throw	1.50
<i>Acuteplum</i>	25389	1200	50 " " double throw	2.30
<i>Acuteplioit</i>	25390	1201	50 " " single throw, fusible	2.30
<i>Acutepline</i>	25391	1202	50 amperes, three pole, single throw	3.00
<i>Acuteplious</i>	25392	1203	50 " " double throw	4.30
<i>Acuteplum</i>	25393	1204	50 " " single throw, fusible	4.30
<i>Acuteplur</i>	25394	1196	50 amperes, single pole, single throw	1.00
<i>Acuteplur</i>	25395	1197	50 " " double throw	1.70
<i>Acuteplum</i>	25396	1198	50 " " single throw, fusible	1.70

The Western Electric Knife Switch.

Type E.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.



No. 20312.

These switches are all rolled tempered copper, and the greatest care in design and construction has been used in order to obtain a switch that would carry its rated capacity in amperes without showing any heating of its parts. In placing and fastening the jaws in position they are not soldered but bolted to the metal plates or lugs. By this method the temper of the jaws is in no way injured, and they will always grasp the blade of the switch with an equal and unvarying contact which will not deteriorate with time.

The hinge contact is made in the same way and the bolt which passes through the hinge is provided with a lock nut, preventing any liability of loosening or poor contact at this point. The blades are of drawn copper, hand finished.

The base is extended for connections on back of board and is secured in place by a lock nut. Swivel connections are provided which will admit of the circuit wires being brought into the switch from any direction.

NOTE.—These Switches are all made to gauge and any repair part can be obtained and a damaged part replaced in a few moments. These Switches are listed for switch-board work unmounted. If desired they will be furnished mounted upon slate bases with front connections, at an advance of 20 per cent. over the price of those with back connections unmounted.

Special prices quoted on Type E Switch, for 500, 1000 and 2000 volts.

Single Pole, Single Throw.

Code Word.	List No.			List Price, Each.
<i>Robute</i>	20282	E 11 up to	50 Ampere capacity	5.60
<i>Rotnted</i>	20283	E 21 " 75	" "	6.30
<i>Rotuteplane</i>	20284	E 31 " 150	" "	8.10
<i>Rotarypump</i>	20285	E 41 " 300	" "	11.90
<i>Rotutice</i>	20286	E 51 " 450	" "	14.40
<i>Rotutice</i>	20287	E 61 " 600	" "	20.70
<i>Rotutor</i>	20288	E 71 " 800	" "	26.30
<i>Rotu</i>	20289	E 81 " 1200	" "	43.10
<i>Rotgut</i>	20290	E 91 " 2000	" "	63.40

Single Pole, Double Throw.

<i>Rotherbeasts</i>	20291	E 12 up to	50 Ampere capacity	6.70
<i>Rothernail</i>	20292	E 22 " 75	" "	7.70
<i>Rothersoil</i>	20293	E 32 " 150	" "	10.10
<i>Rotifer</i>	20294	E 42 " 300	" "	14.70
<i>Rotiform</i>	20295	E 52 " 450	" "	19.50
<i>Rotten</i>	20296	E 62 " 600	" "	26.30
<i>Rottenly</i>	20297	E 72 " 800	" "	34.70
<i>Rottenness</i>	20298	E 82 " 1200	" "	57.00
<i>Rottenstone</i>	20299	E 92 " 2000	" "	84.00



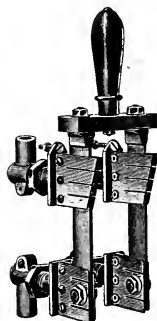
No. 20285.

The Western Electric Knife Switch.

(Continued.)

Type E.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.



No. 20300.

Double Pole, Single Throw.

Code Word	List No			List Price. Each.
<i>Rotular</i>	20300	E 13 up to	50 Ampere capacity	7.80
<i>Rotund</i>	20301	E 23	75 " "	9.20
<i>Rotunda</i>	20302	E 33	150 " "	12.90
<i>Rotundity</i>	20303	E 43	300 " "	18.70
<i>Rotundo</i>	20304	E 53	450 " "	25.70
<i>Rouanne</i>	20305	E 63	600 " "	34.70
<i>Rouble</i>	20306	E 73	800 " "	45.80
<i>Rouche</i>	20307	E 83	1200 " "	79.40
<i>Roue</i>	20308	E 93	2000 " "	129.10

Double Pole, Double Throw.

<i>Rouet</i>	20309	E 14 up to	50 Ampere capacity	10.10
<i>Rouge</i>	20310	E 24	75 " "	12.10
<i>Rough</i>	20311	E 34	150 " "	17.00
<i>Rougeast</i>	20312	E 44	300 " "	24.30
<i>Rougeaster</i>	20313	E 54	450 " "	34.00
<i>Roughdrive</i>	20314	E 64	600 " "	45.80
<i>Rouphen</i>	20315	E 74	800 " "	62.60
<i>Roughfooted</i>	20316	E 84	1200 " "	107.20
<i>Roughkewed</i>	20317	E 94	2000 " "	161.40

Three Pole, Single Throw.

<i>Roughkewer</i>	20318	E 15 up to	50 Ampere capacity	13.00
<i>Roughkewer</i>	20319	E 25	75 " "	17.20
<i>Roughkings</i>	20320	E 35	150 " "	19.80
<i>Roughkish</i>	20321	E 45	300 " "	29.30
<i>Roughlegged</i>	20322	E 55	450 " "	41.40
<i>Roughly</i>	20323	E 65	600 " "	54.30
<i>Roughness</i>	20324	E 75	800 " "	71.80
<i>Roughrider</i>	20325	E 85	1200 " "	118.30
<i>Roughscuff</i>	20326	E 95	2000 " "	182.60

Three Pole, Double Throw.

<i>Roughshod</i>	20327	E 16 up to	50 Ampere capacity	16.80
<i>Roughstrings</i>	20328	E 26	75 " "	21.80
<i>Roughst</i>	20329	E 36	150 " "	28.40
<i>Roughwork</i>	20330	E 46	300 " "	38.20
<i>Rouk</i>	20331	E 56	450 " "	54.60
<i>Roukade</i>	20332	E 66	600 " "	71.50
<i>Roukran</i>	20333	E 76	800 " "	97.70
<i>Roulette</i>	20334	E 86	1200 " "	158.80
<i>Roun</i>	20335	E 96	2000 " "	243.30

Western Electric Quick Break Knife Switch.

Type Q.—For 220 Volts.



No. 20346.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

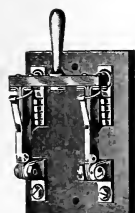
The Type Q is a Quick Break Knife Switch with essentially the same features as Type E, with the addition of the Quick Break Spring. This Switch is especially approved by the Underwriters for an entrance or service switch for motor work, constant potential arc or incandescent lighting as well as for switchboard work. The Switch is listed, with the exception of one size, with back connections unmounted. The Q Switch mounted with front connections on slate will be furnished at an advance of 20 per cent. over the price of the unmounted switches.

Double Pole, Single Throw.

Code Word.	List No.	List Price. Each.
<i>Rounce</i>	20336 Q 23 up to 75 Ampere capacity	11.40
<i>Rouncecut</i>	20337 Q 33 " 150 " "	15.60
<i>Round</i>	20338 Q 43 " 300 " "	22.60
<i>Roundabout</i>	20339 Q 53 " 450 " "	31.50
<i>Roundback</i>	20340 Q 63 " 600 " "	45.20
<i>Roundel</i>	20341 Q 73 " 800 " "	68.00

Three Pole, Single Throw.

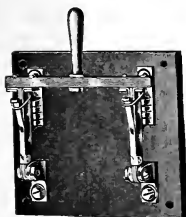
<i>Roundelay</i>	20342 Q 25 up to 75 Ampere capacity	17.20
<i>Rounder</i>	20343 Q 35 " 150 " "	23.10
<i>Roundhead</i>	20344 Q 45 " 300 " "	33.00
<i>Roundhouse</i>	20345 Q 55 " 450 " "	47.40
<i>Rounding</i>	20346 Q 65 " 600 " "	67.90
<i>Roundish</i>	20347 Q 75 " 800 " "	98.10



No. 20349.

Two Pole, Single Throw, 220 Volts.

<i>Roundlet</i>	20348 Q 03 up to 25 Ampere capacity, unmounted..	2.90
<i>Roundly</i>	20349 Q 03 " 25 " " mounted	3.30



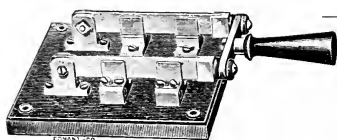
No. 20351.

Two Pole, Single Throw, 500 Volts.

<i>Roundness</i>	20350 Q 03 up to 25 Ampere capacity, unmounted..	3.00
<i>Roundridge</i>	20351 Q 03 " 25 " " mounted	3.40

L. & S. Knife Switches.

Double Throw Without Fuse.



Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	
50	4.00	5.00	6.75	8.50	10.75	13.50	50
100	6.75	8.50	11.25	14.00	18.00	22.50	100
200	9.75	12.25	16.00	20.00	25.50	32.00	200
300	12.00	15.00	20.00	25.00	31.50	39.50	300
400	15.25	19.00	25.50	32.00	40.00	50.00	400
600	20.00	25.00	33.50	42.00	52.50	65.75	600
800	28.00	35.00	46.50	58.00	73.75	92.25	800
1000	40.00	50.00	66.50	83.00	105.00	131.25	1000

Double Throw With Fuse.

Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	
50	5.00	6.25	8.50	10.75	13.50	17.00	50
100	8.50	10.75	14.00	17.50	22.50	28.25	100
200	12.25	15.25	20.00	25.00	32.00	40.00	200
300	15.00	18.75	25.00	31.25	39.50	49.50	300
400	19.00	23.75	32.00	40.00	50.00	62.50	400
600	25.00	31.25	42.00	52.50	65.75	82.25	600
800	35.00	43.75	58.00	72.50	92.25	115.25	800
1000	50.00	62.50	83.00	103.75	131.25	164.00	1000

500-volt switches, except D. T. Fused, add 20 per cent 500-volt switches, Double Throw Fused, add 40 per cent

Single Throw Without Fuse.

Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	
50	3.00	3.75	5.00	6.50	8.00	10.00	50
100	5.00	6.25	8.50	10.50	13.50	17.00	100
200	7.25	9.00	12.00	15.00	19.00	23.75	200
300	9.00	11.25	15.00	18.75	23.50	29.50	300
400	11.50	14.50	19.00	23.75	30.00	37.50	400
600	15.00	18.75	25.00	31.25	39.50	49.50	600
800	21.00	26.25	35.00	43.75	55.25	69.00	800
1000	30.00	37.50	50.00	62.50	78.75	98.50	1000

Single Throw With Fuse.

Amperes.	SINGLE POLE.		DOUBLE POLE.		TRIPLE POLE.		Amperes.
	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	
50	3.75	4.75	6.25	8.00	10.00	12.50	50
100	6.25	7.75	10.50	13.00	17.00	21.25	100
200	9.00	11.25	15.00	18.75	23.75	29.75	200
300	11.25	14.00	18.75	23.50	29.50	37.00	300
400	14.50	18.00	23.75	29.75	37.50	47.00	400
600	18.75	23.50	31.25	39.00	49.50	62.00	600
800	26.25	32.75	43.75	54.75	69.00	86.25	800
1000	37.50	47.00	62.50	78.00	98.50	123.00	1000

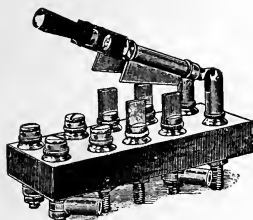
Front connected switches unmounted deduct 10 per cent. Back connected switches unmounted same as list. Back connected switches mounted add 10 per cent.

Style "H" Station Switches for Back Connections.

In this Switch the arm is made sectional as the illustration shows. The blade is of hard drawn copper, securely held in the slotted tube by the end plugs and bushings.

From 25 to 1000 Amperes.

PRICE LIST.



Style "H" Station Switch for Back Connections.

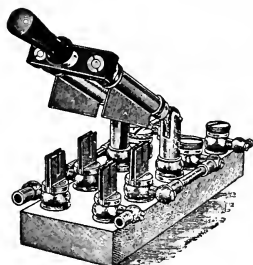


Cut showing mechanical connection of arm.

Capacity in Amperes		WITH FUSE TERMINALS.		WITHOUT FUSE TERMINALS.	
		Polished.	Plain.	Polished.	Plain.
25	Single Pole, Single Throw,	\$ 2.60	\$ 2.35	\$ 2.20	\$ 2.00
25	Single " Double "	4.00	3.60	3.20	2.85
25	Double " Single "	4.75	4.25	3.80	3.40
25	Double " Double "	8.50	7.65	6.80	6.10
25	Triple " Single "	6.00	5.40	4.80	4.30
25	Triple " Double "	10.70	9.60	8.50	7.65
50	Single " Single "	5.50	5.00	4.40	4.00
50	Single " Double "	8.50	7.65	6.80	6.10
50	Double " Single "	10.00	9.00	8.00	7.20
50	Double " Double "	18.00	16.20	14.40	12.00
50	Triple " Single "	12.70	11.40	10.00	9.00
50	Triple " Double "	22.50	19.25	18.00	16.20
75	Single " Single "	7.10	6.40	5.60	5.00
75	Single " Double "	11.00	9.90	8.80	7.90
75	Double " Single "	13.00	11.70	10.40	9.35
75	Double " Double "	23.40	21.00	18.70	16.80
75	Triple " Single "	16.50	14.80	13.20	11.85
75	Triple " Double "	29.00	26.00	25.20	22.65
100	Single " Single "	8.25	7.40	6.60	6.00
100	Single " Double "	12.75	11.45	10.40	9.35
100	Double " Single "	15.00	13.50	12.00	10.80
100	Double " Double "	27.00	24.30	21.60	19.40
100	Triple " Single "	19.00	17.00	15.20	13.50
100	Triple " Double "	33.75	30.30	27.00	24.25
150	Single " Single "	9.00	8.00	7.20	6.50
150	Single " Double "	14.00	12.60	11.20	10.00
150	Double " Single "	16.50	14.80	13.20	11.80
150	Double " Double "	29.70	26.70	25.75	23.00
150	Triple " Single "	20.90	17.80	16.75	15.00
150	Triple " Double "	37.00	33.30	29.60	26.50
200	Single " Single "	11.00	9.90	8.80	8.00
200	Single " Double "	17.00	15.30	13.60	12.25
200	Double " Single "	20.00	18.00	16.00	14.40
200	Double " Double "	36.20	32.50	28.90	26.00
200	Triple " Single "	25.30	22.75	20.25	18.00
200	Triple " Double "	51.00	48.60	43.20	38.80
300	Single " Single "	15.40	13.80	12.30	11.00
300	Single " Double "	23.80	21.40	19.00	17.00
300	Double " Single "	28.00	25.20	22.40	20.00
300	Double " Double "	50.00	45.00	40.00	36.00
300	Triple " Single "	35.50	32.00	28.40	25.50
300	Triple " Double "	63.00	56.70	50.40	45.30
400	Single " Single "	18.70	16.80	15.00	13.50
400	Single " Double "	28.90	26.00	23.10	20.50
400	Double " Single "	34.00	30.60	27.20	24.40
400	Double " Double "	61.20	55.00	48.90	44.00
400	Triple " Single "	43.00	38.70	34.40	30.80
400	Triple " Double "	80.00	72.00	64.00	57.60
600	Single " Single "	25.30	22.75	20.20	18.00
600	Single " Double "	39.00	35.00	31.20	28.00
600	Double " Single "	46.00	41.40	36.80	33.00
600	Double " Double "	82.00	73.80	65.60	59.00
600	Triple " Single "	58.30	51.50	54.60	49.00
600	Triple " Double "	98.00	88.20	78.40	70.50
1000	Single " Single "	40.00	36.00	32.00	28.80
1000	Single " Double "	63.00	56.70	50.00	45.00
1000	Double " Single "	74.00	66.60	59.20	53.25
1000	Double " Double "	132.00	118.00	105.60	95.00
1000	Triple " Single "	93.00	83.00	74.40	67.00
1000	Triple " Double "	166.00	150.00	132.00	118.00

These prices are for parts mounted on slate. Extra charge for marble.

Style "H" Station Switches for Front Connections.



Style "H" Station Switch for Front Connections.



Cut showing mechanical connection of arm.

From 25 to 1000 Amperes.

PRICE LIST.

Capacity in Amperes		WITH FUSE TERMINALS.		WITHOUT FUSE TERMINALS.	
		Polished.	Plain.	Polished.	Plain.
25	Single Pole, Single Throw,	\$ 2.75	\$ 2.50	\$ 2.30	\$ 2.10
25	Single " Double "	4.20	3.80	3.35	3.00
25	Double " Single "	5.00	4.45	4.00	3.60
25	Double " Double "	8.90	8.00	7.15	6.45
25	Triple " Single "	6.30	5.65	5.00	4.50
25	Triple " Double "	11.20	10.00	8.80	8.00
50	Single " Single "	5.75	5.25	4.60	4.10
50	Single " Double "	8.90	8.00	7.20	6.50
50	Double " Single "	10.50	9.50	8.40	7.50
50	Double " Double "	19.00	17.00	15.20	13.20
50	Triple " Single "	13.30	12.00	10.60	9.50
50	Triple " Double "	23.50	20.00	18.50	17.00
75	Single " Single "	7.40	6.75	5.90	5.30
75	Single " Double "	11.50	10.20	9.20	8.25
75	Double " Single "	13.60	12.25	10.50	9.50
75	Double " Double "	24.60	22.00	19.60	17.75
75	Triple " Single "	17.50	15.50	14.00	12.60
75	Triple " Double "	30.50	27.30	24.40	22.00
100	Single " Single "	8.45	7.75	6.75	6.10
100	Single " Double "	13.40	12.00	10.72	9.70
100	Double " Single "	15.75	14.25	12.60	11.40
100	Double " Double "	28.25	25.50	22.60	20.40
100	Triple " Single "	20.00	17.85	16.00	14.40
100	Triple " Double "	34.25	31.80	27.40	24.70
150	Single " Single "	9.50	8.40	7.65	6.90
150	Single " Double "	14.75	13.25	11.80	10.70
150	Double " Single "	17.30	15.50	13.80	12.50
150	Double " Double "	31.20	28.00	25.00	22.50
150	Triple " Single "	22.00	19.75	17.60	15.90
150	Triple " Double "	38.85	35.00	31.00	28.00
200	Single " Single "	11.50	10.40	9.20	8.30
200	Single " Double "	17.80	16.00	14.00	12.60
200	Double " Single "	21.00	19.00	16.80	15.20
200	Double " Double "	38.00	35.20	30.00	27.00
200	Triple " Single "	26.50	24.00	21.25	19.00
200	Triple " Double "	56.50	50.00	45.00	40.00
300	Single " Single "	16.20	14.60	13.00	11.70
300	Single " Double "	25.00	22.50	20.00	18.00
300	Double " Single "	29.40	26.50	23.50	21.00
300	Double " Double "	52.50	47.25	42.00	37.75
300	Triple " Single "	37.25	33.50	29.80	27.00
300	Triple " Double "	66.50	63.20	53.00	48.00
400	Single " Single "	19.60	17.60	15.75	14.25
400	Single " Double "	30.25	27.00	24.20	21.80
400	Double " Single "	35.70	32.20	28.50	26.00
400	Double " Double "	64.00	57.00	51.00	46.00
400	Triple " Single "	45.00	40.00	36.40	32.80
400	Triple " Double "	84.00	75.00	67.00	60.00
600	Single " Single "	26.50	23.90	21.25	19.00
600	Single " Double "	40.80	36.50	32.50	29.25
600	Double " Single "	48.30	43.50	38.50	34.00
600	Double " Double "	86.00	78.00	68.75	61.50
600	Triple " Single "	71.25	64.00	57.00	51.50
600	Triple " Double "	102.00	92.00	80.00	72.00
1000	Single " Single "	42.00	37.20	33.00	30.00
1000	Single " Double "	66.00	60.00	39.00	35.00
1000	Double " Single "	77.75	70.00	62.00	55.00
1000	Double " Double "	138.00	124.00	110.00	100.00
1000	Triple " Single "	87.00	87.50	77.00	70.00
1000	Triple " Double "	174.00	156.50	132.00	120.00

These prices are for parts mounted on slate. Extra charge for marble.



No. 8265.

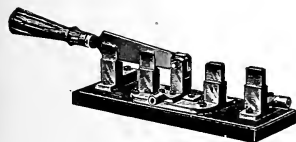
Station Switches.

Single Pole, Single Throw.

Code Word.	List No.		List Price.
<i>Exemplify</i>	8265	15 Amperes, plain, no fuse, each	\$1.75
<i>Exemplifying</i>	8266	" " " " "	3.00
<i>Exempt</i>	8267	50 " " " " "	3.50
<i>Exempted</i>	8268	75 " " " " "	4.25
<i>Exempting</i>	8269	100 " " " " "	5.50
<i>Exercise</i>	8270	200 " " " " "	7.00
<i>Exercised</i>	8271	300 " " " " "	8.75
<i>Exercising</i>	8272	400 " " " " "	13.00
<i>Exert</i>	8273	600 " " " " "	18.25
<i>Exerted</i>	8274	800 " " " " "	21.75
<i>Exertment</i>	8275	1000 " " " " "	24.50
<i>Exhausting</i>	8287	15 " polished, no fuse, each	2.00
<i>Exhaustion</i>	8288	25 " " " " "	3.50
<i>Exhaustive</i>	8289	50 " " " " "	4.25
<i>Exhaustment</i>	8290	75 " " " " "	5.50
<i>Exhibit</i>	8291	100 " " " " "	7.00
<i>Exhibited</i>	8292	200 " " " " "	8.75
<i>Exhibiting</i>	8293	300 " " " " "	11.00
<i>Exhibition</i>	8294	400 " " " " "	15.60
<i>Exhibitive</i>	8295	600 " " " " "	21.90
<i>Exhilarate</i>	8296	800 " " " " "	26.10
<i>Exhilarated</i>	8297	1000 " " " " "	29.40
<i>Exhort</i>	8276	15 " plain, with fuse, each	2.50
<i>Exhorted</i>	8277	25 " " " " "	3.75
<i>Exhorting</i>	8278	50 " " " " "	4.25
<i>Exhume</i>	8279	75 " " " " "	5.50
<i>Exhuming</i>	8280	100 " " " " "	7.00
<i>Exile</i>	8281	200 " " " " "	8.50
<i>Exilement</i>	8282	300 " " " " "	10.50
<i>Exiling</i>	8283	400 " " " " "	16.00
<i>Exist</i>	8284	600 " " " " "	22.00
<i>Existence</i>	8285	800 " " " " "	26.00
<i>Kristent</i>	8286	1000 " " " " "	29.75
<i>Existing</i>	8298	15 " polished, with fuse, each	3.00
<i>Exit</i>	8299	25 " " " " "	4.50
<i>Exode</i>	8300	50 " " " " "	5.25
<i>Exodus</i>	8301	75 " " " " "	6.50
<i>Exonerate</i>	8302	100 " " " " "	8.50
<i>Exonerated</i>	8303	200 " " " " "	10.50
<i>Exotic</i>	8304	300 " " " " "	13.50
<i>Expand</i>	8305	400 " " " " "	19.20
<i>Expanded</i>	8306	600 " " " " "	26.40
<i>Expanding</i>	8307	800 " " " " "	31.20
<i>Expanse</i>	8308	1000 " " " " "	35.70

Single Pole, Double Throw.

<i>Expansion</i>	8000	25 Amperes, plain, no fuse, each	4.00
<i>Expansive</i>	8001	50 " " " " "	4.75
<i>Expatiate</i>	8002	75 " " " " "	5.75
<i>Expectant</i>	8003	100 " " " " "	7.50
<i>Expectorate</i>	8004	200 " " " " "	9.50
<i>Expedient</i>	8005	300 " " " " "	12.00
<i>Expedite</i>	8006	400 " " " " "	20.75
<i>Ezekiel</i>	8007	600 " " " " "	29.25
<i>Ezra</i>	8008	800 " " " " "	35.00
<i>Exertion</i>	8009	1000 " " " " "	40.50



No. 8000.

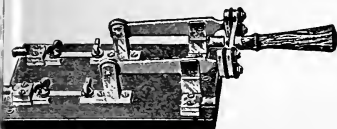
Station Switches—(Continued).

		Single Pole, Double Throw.				List Price
Code Word.	List No.					
<i>Encege</i>	8020	25 Amperes, polished, no fuse, each.				\$4.75
<i>Encaged</i>	8021	50	"	"	"	5.75
<i>Encaging</i>	8022	75	"	"	"	7.00
<i>Encamp</i>	8023	100	"	"	"	8.75
<i>Enchain</i>	8024	200	"	"	"	11.00
<i>Enchained</i>	8025	300	"	"	"	15.00
<i>Enchaining</i>	8026	400	"	"	"	24.90
<i>Enchainment</i>	8027	600	"	"	"	35.10
<i>Enchant</i>	8028	800	"	"	"	42.80
<i>Enchanted</i>	8029	1000	"	"	"	48.60
<i>Encounter</i>	8010	25	"	plain, with fuse, each.		4.75
<i>Encountering</i>	8011	50	"	"	"	5.75
<i>Encourage</i>	8012	75	"	"	"	7.00
<i>Encouraging</i>	8013	100	"	"	"	8.75
<i>Encradle</i>	8014	200	"	"	"	11.00
<i>Encrasson</i>	8015	300	"	"	"	14.50
<i>Encroach</i>	8016	400	"	"	"	26.25
<i>Encroacher</i>	8017	600	"	"	"	36.00
<i>Encroaching</i>	8018	800	"	"	"	42.75
<i>Encroachment</i>	8019	1000	"	"	"	48.25
<i>Enchanting</i>	8030	25	"	polished, with fuse, each.		5.50
<i>Enchantment</i>	8031	50	"	"	"	6.75
<i>Enchase</i>	8032	75	"	"	"	8.25
<i>Enchased</i>	8033	100	"	"	"	10.25
<i>Enchasing</i>	8034	200	"	"	"	13.00
<i>Encircle</i>	8035	300	"	"	"	17.00
<i>Encompass</i>	8036	400	"	"	"	31.50
<i>Encompassed</i>	8037	600	"	"	"	43.20
<i>Encompassing</i>	8038	800	"	"	"	51.30
<i>Encore</i>	8039	1000	"	"	"	58.00

Made with back connections for ten per cent additional to list price.

Double Pole, Single Throw.

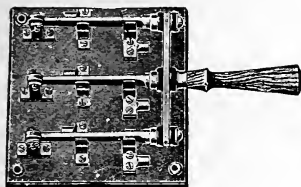
<i>Encumber</i>	8040	15 Amperes, plain, no fuse, each.				2.25
<i>Encumbering</i>	8041	25	"	"	"	5.75
<i>Encumbrance</i>	8042	50	"	"	"	7.00
<i>Endamage</i>	8043	75	"	"	"	8.75
<i>Endanger</i>	8044	100	"	"	"	11.00
<i>Endear</i>	8045	200	"	"	"	14.50
<i>Endeavouring</i>	8046	300	"	"	"	18.00
<i>Endearment</i>	8047	400	"	"	"	29.00
<i>Endeavour</i>	8048	600	"	"	"	39.25
<i>Endeavouring</i>	8049	800	"	"	"	45.75
<i>Endless</i>	8050	1000	"	"	"	52.75
<i>Endlessly</i>	8062	15	"	polished, no fuse, each.		3.25
<i>Endlessness</i>	8063	25	"	"	"	7.00
<i>Endon</i>	8064	50	"	"	"	8.25
<i>Endower</i>	8065	75	"	"	"	10.50
<i>Endowing</i>	8066	100	"	"	"	13.50
<i>Endowment</i>	8067	200	"	"	"	17.50
<i>Endurance</i>	8068	300	"	"	"	24.00
<i>Endure</i>	8069	400	"	"	"	34.80
<i>Endured</i>	8070	600	"	"	"	47.10
<i>Enduring</i>	8071	800	"	"	"	54.90
<i>Endrite</i>	8072	1000	"	"	"	63.30

Station Switches—(Continued).

No. 8051.

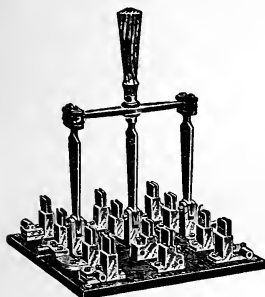
Code Word.	List No.	Double Pole, Single Throw.				List Price.
<i>Enemy</i>	8051	15 Amperes, plain, with fuse, each.....				\$3.00
<i>Evergy</i>	8052	25	"	"	"	7.25
<i>Everrate</i>	8053	50	"	"	"	8.75
<i>Evercoted</i>	8054	75	"	"	"	11.00
<i>Evercreating</i>	8055	100	"	"	"	14.25
<i>Evercreation</i>	8056	200	"	"	"	17.50
<i>Everfamish</i>	8057	300	"	"	"	22.00
<i>Everfeeble</i>	8058	400	"	"	"	34.25
<i>Everfeebled</i>	8059	600	"	"	"	45.25
<i>Everfeeblement</i>	8060	800	"	"	"	52.75
<i>Everfetter</i>	8061	1000	"	"	"	60.00
<i>Evergender</i>	8073	15	polished, with fuse, each.....			4.25
<i>Evergendered</i>	8074	25	"	"	"	8.75
<i>Evergendering</i>	8075	50	"	"	"	10.25
<i>Evergild</i>	8076	75	"	"	"	12.75
<i>Everengineering</i>	8077	100	"	"	"	16.50
<i>Everginery</i>	8078	200	"	"	"	22.00
<i>Evergird</i>	8079	300	"	"	"	29.00
<i>Everglush</i>	8080	400	"	"	"	41.10
<i>Evergloom</i>	8081	600	"	"	"	54.30
<i>Evergorge</i>	8082	800	"	"	"	63.30
<i>Evergorged</i>	8083	1000	"	"	"	72.00

Made with or without fuse, as desired



No. 8124.

		Three Pole, Single Throw.						
<i>Enormous</i>	8124	15	Amperes,	plain,	no fuse,	each.....	3.00.	
<i>Enrage</i>	8125	25	"	"	"	"	8.25.	
<i>Enraged</i>	8126	50	"	"	"	"	10.50.	
<i>Enrank</i>	8127	75	"	"	"	"	13.00.	
<i>Enranked</i>	8128	100	"	"	"	"	16.50.	
<i>Enranking</i>	8129	200	"	"	"	"	21.00.	
<i>Enrapt</i>	8130	300	"	"	"	"	27.00.	
<i>Enrich</i>	8131	400	"	"	"	"	45.50.	
<i>Enriched</i>	8132	600	"	"	"	"	60.25.	
<i>Enriching</i>	8133	800	"	"	"	"	70.00.	
<i>Enrichment</i>	8134	1000	"	"	"	"	80.75.	
<i>Enlisted</i>	8146	15	"	polished,	no fuse,	each.....	4.00.	
<i>Enlisting</i>	8147	25	"	"	"	"	10.50.	
<i>Enlistment</i>	8148	50	"	"	"	"	12.25.	
<i>Enliven</i>	8149	75	"	"	"	"	15.75.	
<i>Enlivened</i>	8150	100	"	"	"	"	20.00.	
<i>Enlivening</i>	8151	200	"	"	"	"	26.50.	
<i>Enmesh</i>	8152	300	"	"	"	"	35.00.	
<i>Enmity</i>	8153	400	"	"	"	"	54.60.	
<i>Ennoble</i>	8154	600	"	"	"	"	72.30.	
<i>Enoch</i>	8155	800	"	"	"	"	84.00.	
<i>Enormity</i>	8156	1000	"	"	"	"	96.90.	
<i>Enkindle</i>	8135	15	"	plain,	with fuse,	each.....	3.75.	
<i>Enkindled</i>	8136	25	"	"	"	"	9.50.	
<i>Enkindling</i>	8137	50	"	"	"	"	13.25.	
<i>Entargement</i>	8138	75	"	"	"	"	16.00.	
<i>Entail</i>	8139	100	"	"	"	"	20.00.	
<i>Entailten</i>	8140	200	"	"	"	"	26.00.	
<i>Entailtened</i>	8141	300	"	"	"	"	35.00.	
<i>Entailtewing</i>	8142	400	"	"	"	"	52.75.	
<i>Entailment</i>	8143	600	"	"	"	"	70.25.	
<i>Entink</i>	8144	800	"	"	"	"	81.25.	
<i>Entist</i>	8145	1000	"	"	"	"	92.50.	



No. 8168.

Station Switches—(Continued).

Three Pole, Double Throw.

Code Word.	List No.		List Price.
<i>Enshield</i>	8168	25 Amperes, plain, no fuse, each	\$11.75
<i>Enshrine</i>	8169	50 " " " "	14.00
<i>Enshroud</i>	8170	75 " " " "	17.50
<i>Ensign</i>	8171	100 " " " "	22.50
<i>Ensignry</i>	8172	200 " " " "	28.00
<i>Enslave</i>	8173	300 " " " "	36.00
<i>Enslaving</i>	8174	400 " " " "	68.00
<i>Enslave</i>	8175	600 " " " "	93.50
<i>Enslung</i>	8176	800 " " " "	110.00
<i>Ensnail</i>	8177	1000 " " " "	128.25
<i>Enticingly</i>	8188	25 " polished, no fuse, each	14.00
<i>Entireness</i>	8189	50 " " " "	16.50
<i>Entitle</i>	8190	75 " " " "	21.00
<i>Entoil</i>	8191	100 " " " "	26.75
<i>Entrance</i>	8192	200 " " " "	35.00
<i>Entranced</i>	8193	300 " " " "	47.00
<i>Entrap</i>	8194	400 " " " "	81.60
<i>Entreat</i>	8195	600 " " " "	112.20
<i>Entreated</i>	8196	800 " " " "	132.00
<i>Entreating</i>	8197	1000 " " " "	154.00
<i>Entailed</i>	8178	25 " plain, with fuse, each	16.00
<i>Entailing</i>	8179	50 " " " "	19.25
<i>Entailment</i>	8180	75 " " " "	23.75
<i>Entangle</i>	8181	100 " " " "	29.50
<i>Entangled</i>	8182	200 " " " "	36.75
<i>Entangling</i>	8183	300 " " " "	48.00
<i>Entering</i>	8184	400 " " " "	84.00
<i>Enterprise</i>	8185	600 " " " "	123.25
<i>Enterprise</i>	8186	800 " " " "	132.75
<i>Enterprise</i>	8187	1000 " " " "	150.00
<i>Entertain</i>	8198	25 " polished, with fuse, each	19.25
<i>Enthroned</i>	8199	50 " " " "	22.75
<i>Enthroned</i>	8200	75 " " " "	28.00
<i>Enthronemet</i>	8201	100 " " " "	35.50
<i>Enthroning</i>	8202	200 " " " "	46.00
<i>Enthusiasm</i>	8203	300 " " " "	60.00
<i>Enthusiast</i>	8204	400 " " " "	100.80
<i>Entice</i>	8205	600 " " " "	157.90
<i>Enticement</i>	8206	800 " " " "	159.30
<i>Enticing</i>	8207	1000 " " " "	180.00

Constructed on the same general principles as our other Station Switches; held open or closed by a positive spring-lock.

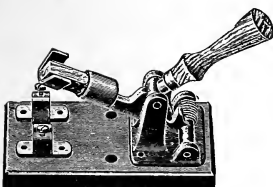
Hill Switch.

Single Pole.

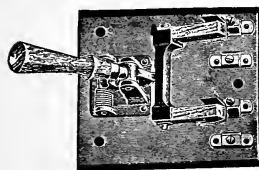
<i>Excuser</i>	8253	25 Amperes, each	2.00
<i>Excusing</i>	8254	50 " "	2.75
<i>Excute</i>	8255	100 " "	4.00
<i>Excuted</i>	8256	200 " "	6.00

Double Pole.

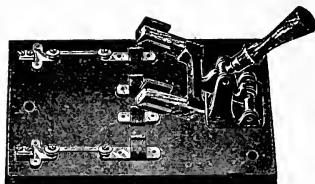
<i>Executing</i>	8257	25 Amperes, each	3.00
<i>Execution</i>	8258	50 " "	4.25
<i>Executioner</i>	8259	100 " "	6.00
<i>Executive</i>	8260	200 " "	8.50



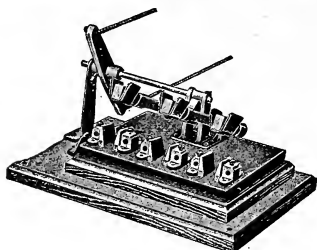
No. 8253.



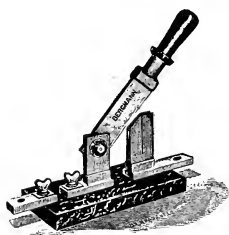
No. 8257.



No. 8261.



No. 8251.



No. 8309.

Dynamo Switch.

With this Switch and simple bus bar connections a very neat and convenient switchboard for a good-sized isolated plant can be made at a very small expense.

Code Word.	List No.	List Price.
<i>Executor</i>	8261 25 Amperes, each	\$ 4.25
<i>Executory</i>	8262 50 " "	6.50
<i>Executress</i>	8263 100 " "	9.50
<i>Exemplary</i>	8264 200 " "	13.00

Elevator Switch.

<i>Excusably</i>	8251 3 Pole, 100 Amperes, each	15.00
<i>Excuse</i>	8252 2 " 100 " "	12.00

Single Pole Blade Switches.

MOUNTED ON MARBLEIZED SLATE BASES.

With Safety Catch Holders.

<i>Mentor</i>	8309	Capacity in Amperes, up to 25, plain, each	.99
<i>Mercenary</i>	8311	" " " 25, polished "	1.20
<i>Mercer</i>	8312	" " " 50, plain "	2.97
<i>Merchant</i>	8314	" " " 50, polished "	3.57
<i>Merciless</i>	8316	" " " 100, plain "	3.63
<i>Mercury</i>	8317	" " " 100, polished "	4.26
<i>Rockmoney</i>	20118	" " " 200, plain "	4.95
<i>Rockcod</i>	20119	" " " 200, polished "	5.94
<i>Mercy</i>	8318	" " " 300, plain "	5.46
<i>Merge</i>	8320	" " " 300, polished "	6.54
<i>Merged</i>	8321	" " " 400, plain "	5.94
<i>Meridian</i>	8323	" " " 400, polished "	7.14
<i>Merino</i>	8324	" " " 600, plain "	8.58
<i>Merited</i>	8326	" " " 600, polished "	0.29

Without Safety Catch Holders.

<i>Meddler</i>	8327	Capacity in Amperes up to 25, plain, each	.90
<i>Meditate</i>	8329	" " " 25, polished "	1.08
<i>Rockcourt</i>	20120	" " " 50, plain "	2.73
<i>Rockcork</i>	20121	" " " 50, polished "	3.27
<i>Meditating</i>	8330	" " " 100, plain "	3.36
<i>Medical</i>	8332	" " " 100, polished "	4.05
<i>Medically</i>	8333	" " " 200, plain "	4.59
<i>Medicated</i>	8335	" " " 200, polished "	5.52
<i>Milkeed</i>	8336	" " " 300, plain "	5.04
<i>Milkmaid</i>	8338	" " " 300, polished "	6.06
<i>Milkman</i>	8339	" " " 400, plain "	5.49
<i>Milky</i>	8341	" " " 400, polished "	6.90
<i>Mill</i>	8342	" " " 600, plain "	7.95
<i>Millet</i>	8344	" " " 600, polished "	9.54

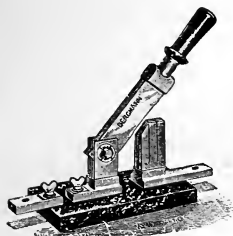
Single Pole Blade Switches—(Continued).

With Safety Catch Holders.

Code Word.	List No.	Capacity in Amperes up to 800, plain	each...	List Price.
<i>Rockkress</i>	20122	"	"	\$13.80
<i>Rockdoe</i>	20123	"	" 800, polished "	16.56
<i>Milling</i>	8345	"	" 1200, plain "	18.15
<i>Mimic</i>	8347	"	" 1200, polished "	21.78
<i>Mimicul</i>	8348	"	" 1800, plain "	25.41
<i>Mince</i>	8350	"	" 1800, polished "	30.49

Without Safety Catch Holders.

<i>Rockthay</i>	20124	Capacity in Amperes up to 800, plain,	each...	12.77
<i>Rocker</i>	20125	"	" 800, polished "	15.34
<i>Mined</i>	8351	"	" 1200, plain "	16.79
<i>Mind</i>	8353	"	" 1200, polished "	20.16
<i>Minded</i>	8354	"	" 1800, plain "	23.50
<i>Mindfully</i>	8356	"	" 1800, polished "	28.12



No. 8345

Double and Triple Pole Blade Switches

WITH SAFETY CATCH HOLDERS.

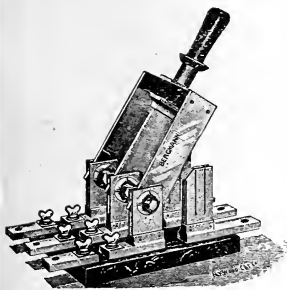
Double Pole.

<i>Minor</i>	8357	Capacity in Amperes, up to 25, plain,	each....	1.65
<i>Mingle</i>	8359	"	" 25, polished "	1.98
<i>Mining</i>	8360	"	" 50, plain "	3.96
<i>Minister</i>	8362	"	" 50, polished "	4.77
<i>Mink</i>	8363	"	" 100, plain "	5.94
<i>Minastrel</i>	8365	"	" 100, polished "	7.14
<i>Rockery</i>	20126	"	" 200, plain "	7.20
<i>Rocket</i>	20127	"	" 200, polished "	9.30
<i>Mintog</i>	8366	"	" 300, plain "	9.00
<i>Mimus</i>	8368	"	" 300, polished "	10.80
<i>Minute</i>	8369	"	" 400, plain "	10.23
<i>Minuteness</i>	8371	"	" 400, polished "	12.27
<i>Miracle</i>	8372	"	" 600, plain "	13.86
<i>Miriness</i>	8374	"	" 600, polished "	16.62

Triple Pole.

<i>Mirror</i>	8375	Capacity in Amperes up to 25, plain	each....	2.31
<i>Mirth</i>	8377	"	" 25, polished "	2.79
<i>Mirthful</i>	8378	"	" 50, plain "	5.28
<i>Misapply</i>	8380	"	" 50, polished "	6.36
<i>Misbehare</i>	8381	"	" 100, plain "	8.91
<i>Mischance</i>	8383	"	" 100, polished "	10.71
<i>Rockfish</i>	20128	"	" 200, plain "	11.22
<i>Rockgout</i>	20129	"	" 200, polished "	13.47
<i>Mischief</i>	8384	"	" 300, plain "	13.20
<i>Miscr</i>	8386	"	" 300, polished "	15.84
<i>Misery</i>	8387	"	" 400, plain "	15.18
<i>Misfortune</i>	8390	"	" 400, polished "	18.21
<i>Misgice</i>	8391	"	" 600, plain "	20.79
<i>Misguide</i>	8393	"	" 600, polished "	24.96

Nos. 8357 and 8375.



Double and Triple Pole Blade Switches.

WITHOUT SAFETY CATCH HOLDERS.

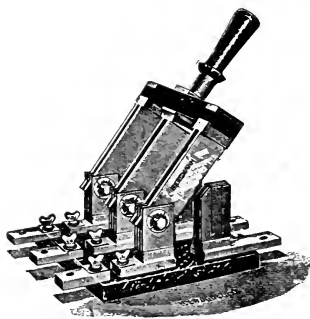
Double Pole.

Code Word.	List No	Capacity in Amperes, up to	each	List Price.
<i>Misguided</i>	8394	25, plain	each	1.50
<i>Mishap</i>	8396	" " 25, polished	"	1.80
<i>Misjoin</i>	8397	" " 50, plain	"	3.66
<i>Misjudged</i>	8399	" " 50, polished	"	4.38
<i>Misjudging</i>	8400	" " 100, plain	"	5.49
<i>Mislead</i>	8402	" " 100, polished	"	6.60
<i>Rockless</i>	20130	" " 200, plain	"	7.17
<i>Rockling</i>	20131	" " 200, polished	"	8.61
<i>Misleader</i>	8403	" " 300, plain	"	8.34
<i>Misplace</i>	8405	" " 300, polished	"	9.99
<i>Misrule</i>	8406	" " 400, plain	"	9.48
<i>Missing</i>	8408	" " 400, polished	"	11.37
<i>Mission</i>	8409	" " 600, plain	"	12.84
<i>Mist</i>	8411	" " 600, polished	"	15.42

Triple Pole.

<i>Mistake</i>	8412	Capacity in Amperes up to 25, plain	each	2.10
<i>Mistletoe</i>	8414	" " 25, polished	"	2.52
<i>Mistreat</i>	8415	" " 50, plain	"	4.86
<i>Mistrust</i>	8417	" " 50, polished	"	5.85
<i>Misuse</i>	8418	" " 100, plain	"	8.25
<i>Miter</i>	8420	" " 100, polished	"	9.90
<i>Rockmilk</i>	20132	" " 200, plain	"	10.38
<i>Rockmoss</i>	20133	" " 200, polished	"	12.45
<i>Mitigate</i>	8421	" " 300, plain	"	12.21
<i>Mittimus</i>	8423	" " 300, polished	"	14.67
<i>Mix</i>	8424	" " 400, plain	"	14.04
<i>Mixture</i>	8426	" " 400, polished	"	16.86
<i>Moun</i>	8427	" " 600, plain	"	19.14
<i>Moaning</i>	8429	" " 600, polished	"	22.98

€



Nos. 8430 and 8436.

Double and Triple Pole.

WITH SAFETY CATCH HOLDERS.

Double Pole.

<i>Rockoil</i>	20134	Capacity in Amperes up to 800, plain	each	23.23
<i>Rockrose</i>	20135	" " 800, polished	"	27.83
<i>Mount</i>	8430	" " 1200, plain	"	36.30
<i>Mobbed</i>	8432	" " 1200, polished	"	43.56
<i>Mobbing</i>	8433	" " 1800, plain	"	43.56
<i>Moccasin</i>	8435	" " 1800, polished	"	52.27

Double and Triple Pole—(Continued).

Triple Pole.

Code Word	List No	List Price.
Rockplant	20136	Capacity in Amperes up to 800, plain, each ... 35.57
Rockruby	20137	" " " 800, polished " ... 42.70
Mock	8436	" " " 1200, plain " ... 58.08
Mocked	8438	" " " 1200, polished " ... 69.70
Mocking	8439	" " " 1800, plain " ... 65.34
Modeled	8441	" " " 1800, polished " ... 78.41

WITHOUT SAFETY CATCH HOLDERS.

Double Pole.

Rocksalt	20138	Capacity in Amperes up to 800, plain, each ... 32.12
Rockshaft	20139	" " " 800, polished " ... 26.37
Modeling	8442	" " " 1200, plain " ... 33.59
Mordant	8444	" " " 1200, polished " ... 40.33
Morning	8445	" " " 1800, plain " ... 40.29
Morphology	8447	" " " 1800, polished " ... 48.34

Triple Pole.

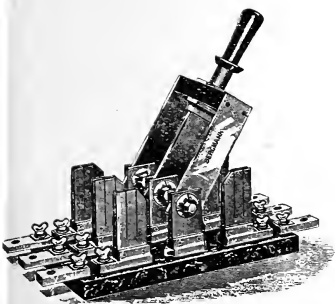
Rockshell	20140	Capacity in Amperes, up to 800, plain, each .. 32.90
Rocksoap	20141	" " " 800, polished " .. 39.47
Morsel	8448	" " " 1200, plain " .. 53.72
Mortality	8450	" " " 1200, polished " .. 64.48
Mortar	8451	" " " 1800, plain " .. 60.46
Mortgage	8453	" " " 1800, polished " .. 72.53

Double Throw—Single, Double and Triple Pole.

WITH SAFETY CATCH HOLDERS.

Single Pole.

Mortify	8454	Capacity in Amperes up to 25, plain, each ... 1.77
Mortise	8456	" " " 25, polished " 2.13
Mossie	8457	" " " 50, plain " 5.28
Moslem	8459	" " " 50, polished " 6.36
Mossy	8460	" " " 100, plain " 6.48
Motherly	8462	" " " 100, polished " 7.80
Rocktur	20142	" " " 200, plain " 8.82
Rockwood	20143	" " " 200, polished " 10.56
Motion	8463	" " " 300, plain " 9.69
Mutley	8465	" " " 300, polished " 11.64
Mottled	8466	" " " 400, plain " 10.56
Mound	8468	" " " 400, polished " 12.69
Mount	8469	" " " 600, plain " 15.24
Mounting	8471	" " " 600, polished " 18.30



Nos. 8454, 8472 and 8490.

Double Throw—Single, Double and Triple Pole —(Continued)

Double Pole.

Code Word	List No	Capacity in Amperes, up to	25, plain	each	List Price
<i>Mourn</i>	8472	"	"	"	2.97
<i>Mournful</i>	8474	"	"	" 25, polished "	3.57
<i>Mournfully</i>	8475	"	"	" 50, plain "	7.05
<i>Mouse</i>	8477	"	"	" 50, polished "	8.46
<i>Mouth</i>	8478	"	"	" 100, plain "	10.56
<i>Movable</i>	8480	"	"	" 100, polished "	12.69
<i>Rockwork</i>	20144	"	"	" 200, plain "	13.77
<i>Rocky</i>	20145	"	"	" 200, polished "	16.53
<i>Movement</i>	8481	"	"	" 300, plain "	16.02
<i>Mortgaging</i>	8483	"	"	" 300, polished "	19.20
<i>Modern</i>	8484	"	"	" 400, plain "	18.21
<i>Modest</i>	8486	"	"	" 400, polished "	21.84
<i>Modestly</i>	8487	"	"	" 600, plain "	24.66
<i>Lump</i>	8489	"	"	" 600, polished "	29.58

Triple Pole.

<i>Modify</i>	8490	Capacity in Amperes up to	25, plain	each	4.14
<i>Module</i>	8492	"	" 25, polished "	"	4.98
<i>Moist</i>	8493	"	" 50, plain "	"	9.42
<i>Moistening</i>	8495	"	" 50, polished "	"	11.28
<i>Moisture</i>	8496	"	" 100, plain "	"	15.84
<i>Moldiness</i>	8498	"	" 100, polished "	"	19.02
<i>Rocua</i>	20146	"	" 200, plain "	"	19.98
<i>Rode</i>	20147	"	" 200, polished "	"	23.97
<i>Molest</i>	8499	"	" 300, plain "	"	23.49
<i>Molify</i>	8501	"	" 300, polished "	"	28.20
<i>Molt</i>	8502	"	" 400, plain "	"	27.00
<i>Molten</i>	8504	"	" 400, polished "	"	32.40
<i>Moment</i>	8505	"	" 600, plain "	"	36.96
<i>Momentous</i>	8507	"	" 600, polished "	"	44.37

WITHOUT SAFETY CATCH HOLDERS.

Single Pole.

<i>Mound</i>	8508	Capacity in Amperes up to	25, plain	each	\$1.62
<i>Monarchial</i>	8510	"	" 25, polished "	"	1.92
<i>Monarchy</i>	8511	"	" 50, plain "	"	4.65
<i>Monastic</i>	8513	"	" 50, polished "	"	5.58
<i>Mongrel</i>	8414	"	" 100, plain "	"	5.76
<i>Monkey</i>	8516	"	" 100, polished "	"	6.93

No. 8414, Code Word "Mongrel," page 50,
should be "No. 8514."



Double Throw—Single, Double and Triple Pole —(Continued).

Single Pole.—(Continued.)

Code Word.	List No.		List Price.
<i>Rodent</i>	20148	Capacity in Amperes up to 200, plain each...	\$ 7.86
<i>Rodge</i>	20149	" " " 200, polished " ..	9.45
<i>Monkish</i>	8517	" " " 300, plain "	8.61
<i>Monopoly</i>	8519	" " " 300, polished "	10.38
<i>Monotony</i>	8520	" " " 400, plain "	9.36
<i>Monthly</i>	8522	" " " 400, polished "	11.25
<i>Monument</i>	8523	" " " 600, plain "	13.56
<i>Moose</i>	8525	" " " 600, polished "	16.29

Double Pole.

<i>Macaroni</i>	8526	Capacity in Amperes, up to 25, plain, each....	2.70
<i>Mace</i>	8528	" " " 25, polished "	3.24
<i>Macarate</i>	8529	" " " 50, plain "	6.24
<i>Machinery</i>	8531	" " " 50, polished "	7.50
<i>Machinist</i>	8532	" " " 100, plain "	9.36
<i>Madam</i>	8534	" " " 100, polished "	11.25
<i>Rodomet</i>	20150	" " " 200, plain "	12.24
<i>Roestone</i>	20151	" " " 200, polished "	14.73
<i>Mudcap</i>	8535	" " " 300, plain "	14.25
<i>Madman</i>	8537	" " " 300, polished "	17.10
<i>Madness</i>	8538	" " " 400, plain "	16.20
<i>Magnitude</i>	8540	" " " 400, polished "	19.44
<i>Maggot</i>	8541	" " " 600, plain "	21.93
<i>Magie</i>	8543	" " " 600, polished "	26.34

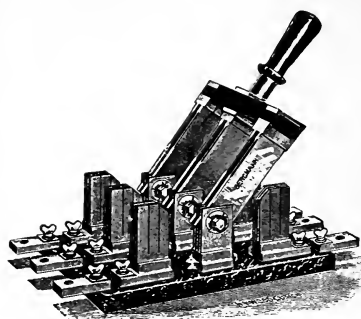
Triple Pole.

<i>Magical</i>	8544	Capacity in Amperes up to 25, plain each....	3.78
<i>Magistrate</i>	8546	" " " 25, polished "	4.53
<i>Magney</i>	8547	" " " 50, plain "	8.28
<i>Magnifying</i>	8549	" " " 50, polished "	9.96
<i>Magnitude</i>	8550	" " " 100, plain "	14.10
<i>Maggie</i>	8552	" " " 100, polished "	16.92
<i>Rogue</i>	20152	" " " 200, plain "	17.73
<i>Rodgeship</i>	20153	" " " 200, polished "	21.30
<i>Mahometan</i>	8553	" " " 300, plain "	20.85
<i>Maiden</i>	8555	" " " 300, polished "	25.05
<i>Maidenly</i>	8556	" " " 400, plain "	23.97
<i>Maimed</i>	8558	" " " 400, polished "	28.77
<i>Maining</i>	8559	" " " 600, plain "	32.58
<i>Mainmail</i>	8561	" " " 600, polished "	39.09

Double Throw—Single, Double and Triple Pole

(Continued).

WITH SAFETY CATCH HOLDERS.



Nos. 8562, 8568 and 8574.

Single Pole.

Code Word.	List No.	Capacity in Amperes up to	List Price.
<i>Royal</i>	20154	800, plain, each	24.52
<i>Royal</i>	20155	" " " 800, polished "	29.44
<i>Maintain</i>	8562	" " " 1200, plain "	32.27
<i>Morize</i>	8564	" " " 1200, polished "	38.74
<i>Majestic</i>	8565	" " " 1800, plain "	45.21
<i>Major</i>	8567	" " " 1800, polished "	54.25

Double Pole.

<i>Roist</i>	20156	Capacity in Amperes up to 800, plain, each	41.32
<i>Roke</i>	20157	" " " 800, polished "	49.60
<i>Majority</i>	8568	" " " 1200, plain "	64.55
<i>Malapert</i>	8570	" " " 1200, polished "	77.48
<i>Malaria</i>	8571	" " " 1800, plain "	77.45
<i>Malcontent</i>	8573	" " " 1800, polished "	93.36

Triple Pole.

<i>Rokeage</i>	20158	Capacity in Amperes, up to 800, plain, each	63.23
<i>Role</i>	20159	" " " 800, polished "	75.90
<i>Mope</i>	8574	" " " 1200, plain "	103.29
<i>Moping</i>	8576	" " " 1200, polished "	123.95
<i>Moral</i>	8577	" " " 1800, plain "	116.16
<i>Morality</i>	8579	" " " 1800, polished "	139.39

WITHOUT SAFETY CATCH HOLDERS.

Single Pole.

<i>Rollcall</i>	20160	Capacity in Amperes up to 800, plain, each	21.78
<i>Roller</i>	20161	" " " 800, polished "	26.14
<i>Moralize</i>	8580	" " " 1200, plain "	28.64
<i>Morass</i>	8582	" " " 1200, polished "	34.39
<i>Morbid</i>	8583	" " " 1800, plain "	40.09
<i>Morbidness</i>	8585	" " " 1800, polished "	48.11

Double Pole.

<i>Rollerbolt</i>	20162	Capacity in Amperes up to 800, plain, each	37.14
<i>Rollermill</i>	20163	" " " 800, polished "	44.00
<i>Morose</i>	8586	" " " 1200, plain "	57.38
<i>Malicious</i>	8588	" " " 1200, polished "	68.87
<i>Maline</i>	8589	" " " 1800, plain "	68.74
<i>Malignity</i>	8591	" " " 1800, polished "	82.33

Triple Pole.

<i>Rollingpin</i>	20164	Capacity in Amperes up to 800, plain, each	56.10
<i>Rollingpress</i>	20165	" " " 800, polished "	67.32
<i>Malard</i>	8592	" " " 1200, plain "	91.67
<i>Mulling</i>	8594	" " " 1200, polished "	113.52
<i>Malt</i>	8595	" " " 1800, plain "	103.16
<i>Mammotin</i>	8597	" " " 1800, polished "	123.78

Double Throw—Single, Double and Triple Pole (Continued).

Separate Lugs for Blade Switches.

Code Word.	List No.	Capacity in Amperes up to 25, plain	each	List Price
<i>Mammon</i>	8598	"	" 25, plain	.11
<i>Mammoth</i>	8599	"	" 25, polished	.12
<i>Manacle</i>	8600	"	" 50, plain	.15
<i>Manacled</i>	8601	"	" 50, polished	.17
<i>Romage</i>	20166	"	" 100, plain	.29
<i>Roman</i>	20167	"	" 100, polished	.34
<i>Manaceling</i>	8602	"	" 150, plain	.29
<i>Manage</i>	8603	"	" 150, polished	.34
<i>Romance</i>	20168	"	" 200, plain	.44
<i>Romant</i>	20169	"	" 200, polished	.49
<i>Management</i>	8604	"	" 300, plain	.58
<i>Manager</i>	8605	"	" 300, polished	.65
<i>Managing</i>	8606	"	" 400, plain	.58
<i>Manakin</i>	8607	"	" 400, polished	.65
<i>Mandamus</i>	8608	"	" 600, plain	.73
<i>Mandarin</i>	8609	"	" 600, polished	.80
<i>Romeine</i>	20170	"	" 800, plain	.97
<i>Romekin</i>	20171	"	" 800, polished	1.07
<i>Mandate</i>	8610	"	" 1200, plain	2.20
<i>Mandatory</i>	8611	"	" 1200, polished	2.44
<i>Mandrake</i>	8612	"	" 1800, plain	3.34
<i>Mandrel</i>	8613	"	" 1800, polished	3.67



No. 20199. Open.



No. 20199. Closed.

Bryant High Tension Service Switch and Fuse Box Combined.

Designed for 500 Volt Motor Service Switch. Made of iron, slate lined, slate thoroughly baked in oil. It is double pole, double break. The distance between the terminals is five (5) inches. The positive and negative sides are separated by slate

When opened the fuse terminals have no connections whatever with the live wires, and are therefore safe and convenient to fuse.

When the box is closed no live parts can be touched either intentionally or by accident. It is moisture and weather proof.

The box is also adapted to work on primary alternating circuits 1000 volts. It combines both the features of a cut-out and knife switch.

Code Word	List No	High Tension Service Switch, 100 Amperes, 500 Volts, each	List Price
<i>Ruoster</i>	20199		7.00

Larger sizes made to order.

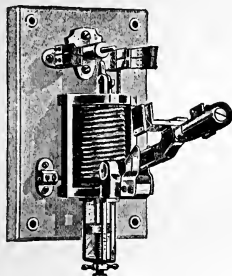
Price of Connections for Blade Switches.

In figuring the cost of Knife Switches on pages 46 to 53 inclusive, add to the list prices the list prices of connections therewith.

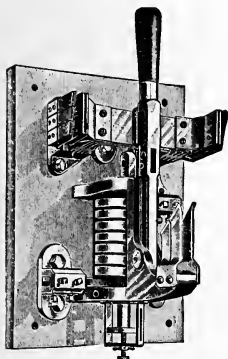
Prices on connections are subject to the same discount as the switches.

FOR SINGLE THROW.			FOR DOUBLE THROW.		
25 Amperes, 1 Pole.....	\$.27		25 Amperes, 1 Pole.....	\$.39	
25 " 2 " .....	.54		25 " 2 " .....	.81	
25 " 3 " .....	.81		25 " 3 "	1.20	
50 " 1 " .....	.69		50 " 1 "	1.20	
50 " 2 "	1.35		50 " 2 "	2.40	
50 " 3 "	2.00		50 " 3 "	3.60	
100 " 1 " .....	.87		100 " 1 "	1.74	
100 " 2 "	1.74		100 " 2 "	3.48	
100 " 3 "	2.79		100 " 3 "	5.22	
200 " 1 " .....	.93		200 " 1 "	1.86	
200 " 2 "	1.86		200 " 2 "	3.72	
200 " 3 "	2.94		200 " 3 "	5.58	
300 " 1 "	1.20		300 " 1 "	2.46	
300 " 2 "	2.40		300 " 2 "	4.80	
300 " 3 "	3.60		300 " 3 "	7.41	
400 " 1 "	1.62		400 " 1 "	3.30	
400 " 2 "	3.24		400 " 2 "	6.66	
400 " 3 "	4.80		400 " 3 "	9.99	
600 " 1 "	2.13		600 " 1 "	4.26	
600 " 2 "	4.26		600 " 2 "	8.52	
600 " 3 "	6.39		600 " 3 "	12.78	
800 " 1 "	2.94		800 " 1 "	5.73	
800 " 2 "	5.88		800 " 2 "	11.46	
800 " 3 "	8.82		800 " 3 "	17.79	
1200 " 1 "	4.02		1200 " 1 "	8.67	
1200 " 2 "	8.01		1200 " 2 "	17.34	
1200 " 3 "	12.00		1200 " 3 "	25.98	
1800 " 1 "	4.14		1800 " 1 "	9.99	
1800 " 2 "	8.28		1800 " 2 "	19.98	
1800 " 3 "	12.66		1800 " 3 "	30.00	
For Single Pole Switches, as above, 2 Connections.			For Single Pole Switches, as above, 3 Connections.		
" Double " " " 4 "			" Double " " " 6 "		
" Three " " " 6 "			" Three " " " 9 "		

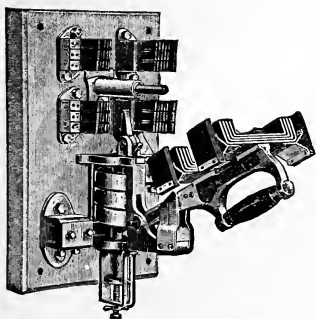
In ordering Switches, be sure to specify connections if they are desired.



Open. Small Size.



Closed. Large Size.



800 Ampere Single.

I-T-E Automatic Magnetic Circuit Breaker.

Single Pole and Double Pole, Direct or Alternating Current, Standard Switchboard Type, Back Connections.

Size of Base.

From 5 Amperes to 60 Amperes, Single Pole.....	7 x 11 x 1 1/2 inches.
“ 80 “ 600 “ “	10 x 14 x 1 1/2 “
“ 800 “ 1000 “ “	11 x 17 x 1 1/2 “
“ 5 “ 60 “ Double Pole.....	7 x 13 v 1 1/2 “
“ 80 “ 600 “ “	10 x 17 x 1 1/2 “

The Double Pole Circuit Breakers between 80 Amperes and 600 Amperes are identical in construction with the 800 Ampere Single Pole.

Finish, Price-List, Rating and Adjustment.

The I-T-E Standard Switchboard Circuit Breakers are furnished in the following finishes:

No. 1. Standard. Mounted on black enamel, slate or marble base, as desired. Jacket finished in polished nickel; current-carrying parts natural copper finish, highly polished and lacquered; non-electrical parts nickel-plated.

No. 3. Rough Type. Mounted on plain slate base. Jacket copper-plated; current-carrying and non-electrical parts dipped finish; all movable iron parts copper-plated; all bearing pins phosphor bronze.

Should the Circuit Breaker be desired for switchboard work on template, so state and give thickness of switchboard.

Double Pole Circuit Breakers of this type should not be used on circuits of over 250 volts.

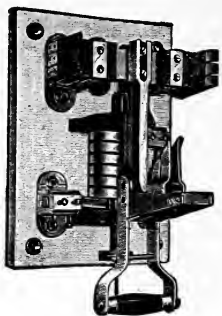
Price of No. 3 finish is 10 per cent. less than list of No. 1 finish.

Direct Current.

CODE.	Actual Rating Amperes.	ADJUSTMENT AMPERES.			NO. 1 FINISH.	
		Steps.	Lowest.	Highest.	Single Pole.	Double Pole
OI	2000					
PI	1500					
AI	1000					
UI	800	150	800	1600	\$98.00	\$146.25
LI	600	100	700	1400	98.00	146.25
BI	500	100	500	1000	66.00	103.00
VI	400	80	400	800	66.00	94.00
CI	300	70	350	700	63.00	94.00
DI	200	60	225	525	57.00	85.00
GI	100	50	150	350	45.00	67.00
WI	80	25	75	175	39.00	58.00
HI	60	20	60	150	39.00	58.00
XI	45	15	35	95	33.00	49.00
KI	30	15	25	75		
YI	20	5	15	40	30.00	45.00
MI	10	4	8	24		
NI	5	2	4	12		

Alternating Current.

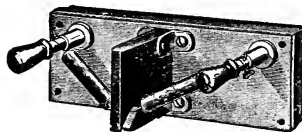
CODE.	Actual Rating Amperes.	ADJUSTMENT AMPERES.			NO. T FINISH.	
		Steps.	Lowest.	Highest.	Single Pole.	Double Pole
OAI	2000					
PAI	1500					
AAI	1000	150	800	1600	\$122.50	\$183.00
QAI	800	100	700	1400	122.50	183.00
UAI	600	100	500	1000	86.25	128.75
BAI	400	80	400	800	82.50	122.50
VAI	400	70	350	700	77.75	117.50
CAI	300	60	225	525	71.25	106.25
DAI	200	50	110	350	56.25	83.75
GAI	100	25	75	175	48.75	72.50
WAI	80	20	60	150	48.75	72.50
HAI	60	20	45	125	41.25	61.25
XAI	45	15	35	95	37.50	56.25
YAI	30	15	25	75	37.50	56.25
YAI	20	5	15	40	37.50	56.25
MAI	10	4	8	24	37.50	
	5	2	4	12		



Circuit Breaker with Swinging Arm Handle.



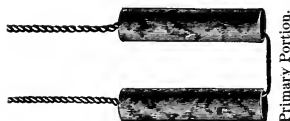
Throwing-in Arm.



Complete Shunt Block. Fuse in Position.



Extra Plugs and Fuse for Shunt Block.



Protected Terminal Fuse.

I-T-E Automatic Magnetic Circuit Breakers —(Continued).

This cut represents Circuit Breaker with Swinging Arm Handle to permit of its location at top of Switchboard or under hood of street railway car.

Throwing-In Arm.

Throwing-In Arm for use on 800 Ampere Single Pole and larger, and 300 Ampere Double Pole and larger

This arm is included in price for above size Circuit Breakers.

I-T-E Shunt Block with Protected Terminal Fuse.

For high voltage work, where an extra precaution is desired to protect the contacts of circuit breaker, it is advisable to use the protected terminal fuse and shunt block. By means of this device the arc is transferred from the contacts of circuit breaker to a favorably located fuse of such construction that the terminals of fuse block are protected and arcing cannot be maintained.

These fuses are much less in carrying capacity than the minimum adjustment of the circuit breaker, hence they afford an absolute protection.

Shunt Blocks.

Style A 2, 600-80 Amperes, each.....	\$6.00
Style A 3, 80-5 " ".....	6.00

Price includes an extra set of plugs.

Protected Terminal Fuses.

SWITCHBOARD TYPE.

For 2,000-1,000 Amperes, per 100.....	6.00
For 800- " " ".....	4.50

SIZE OF STANDARD CIRCUIT BREAKERS.		SIZE OF FUSE TO PROTECT STANDARD CIRCUIT BREAKERS.		
Code.	Capacity Amperes, Actual.	Type Shunt Block.	Primary Fuse	Metal.
O1	2000	A-1	No. 10 B. & S.	Copper.
P1	1500	A-1	10 "	"
A1	1000	A-1	12 "	"
Q1	800	A-1	12 "	"
U1	600	A-2	14 "	"
B1	500	A-2	16 "	"
V1	400	A-2	18 "	"
C1	300	A-2	18 "	"
D1	200	A-2	18 "	"
G1	100	A-2	18 "	"
W1	80	A-2	20 "	"
H1	60	A-3	22 "	"
X1	45	A-3	24 "	"
K1	30	A-3	15 Amp.	Lead and Tin.
Y1	20	A-3	10 "	"
M1	10	A-3	5 "	"
N1	5	A-3	3 "	"

We also make a form of shunt fuse block designed to have the fuse "blow" back of the switchboard, but controlled from the front.

I-T-E Mercury Contact Circuit Breakers

For Direct and Alternating Current both in Single and Double Pole.

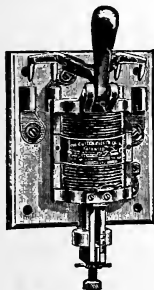
SPECIALLY DESIGNED FOR CURRENTS OF HIGH VOLTAGE.

The contacts and mercury-containing cups are made of aluminum, a metal with which mercury will not amalgamate.

This form of Circuit Breaker is intended to be used for service wires entering buildings and also for all mains carrying currents in excess of 10 amperes. There are but two forces employed in this device, namely, gravity and magnetism.

Size of Base.

5 Amperes to 60 Amperes, Single and Double Pole, 6 x 7 x $\frac{3}{8}$ inches.



Double Pole Mercury Contact.

CODE.	Actual Rating Amperes.	ADJUSTMENT AMPERES.			PRICE.	
		Steps.	Lowest.	Highest.	Single Pole.	Double Pole.
Hg NI	5	2	4	12	\$12.00	\$16.50
Hg MI	10	4	8	24		
Hg YI	20	5	15	40		
Hg KI	30	15	25	75		
Hg XI	45	15	35	90		
Hg HI	60	20	45	125	16.50	22.50
Hg WI	80	25	65	175	22.50	30.00
Hg GI	100	30	75	200	30.00	36.00

The jackets and all other non-current carrying parts are nickel-plated. The current-carrying parts are polished aluminum.

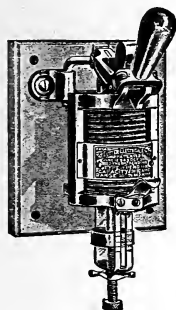
I-T-E Mercury Contact Circuit Breakers

For Underload and Overload.

Specially designed for use in connection with Motors, to open a circuit in case of an overload; also, to open the circuit in case of an underload or a break between motor and service supply. This special device protects motor and building against overloads and fires resulting therefrom. It also protects the generator and cables against sudden overloads. The underload feature protects motor and building in case the current is momentarily cut off at the generator end.

Size of Base.

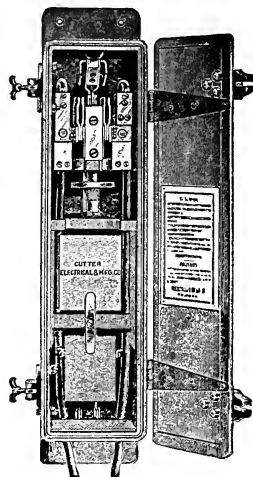
5 Amperes to 60 Amperes, Single Pole and Double Pole, 6 x 7 x $\frac{3}{8}$ inches.



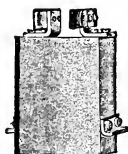
Underload and Overload.

CODE.	Actual Rating Amperes.	OVERLOAD ADJUSTMENT AMPERES.			Underload Adjustment Amperes.	PRICE.	
		Steps.	Lowest.	Highest.		Single Pole.	Double Pole.
Hg N2I	5	1	5	10	1	\$16.50	\$22.50
Hg F2I	7 $\frac{1}{2}$	1 $\frac{1}{2}$	8	16	1 $\frac{1}{2}$		
Hg M2I	10	2	10	20	2		
Hg L2I	15	3	15	30	3		
Hg Y2I	20	4	20	40	4		
Hg T2I	25	5	25	50	5	22.50	30.00
Hg K2I	30	6	30	60	6		
Hg X2I	45	9	45	90	9		
Hg H2I	60	12	60	120	12		
Hg W2I	80	16	80	160	16	30.00	40.00
Hg G2I	100	20	100	200	20	40.00	50.00

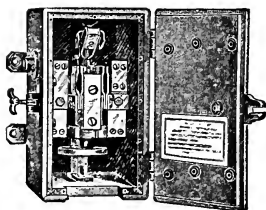
The Mercury Circuit Breakers are positive in action, and are guaranteed to operate at all times within five per cent. of adjustment. They are non-arcing, having a long, clean break of five inches, and can be instantly, and without special effort, re-set. These Circuit Breakers cannot be re-set if the same excess of current or trouble still exists on the wires that caused it to open.



Platform Type, to use on Dashboard.



Fuse Block.



Sill Type, to use on Platform Sill.

I-T-E Automatic Magnetic Car Circuit Breaker.

The severe conditions under which street railway equipments operate demand some other protection than that afforded by fuses.

Briefly, the following troubles in Electric Railway Service are remedied by the use of the "I-T-E" Magnetic Circuit Breaker.

Careless treatment and abuse of equipment by incompetent or reckless motormen.

Interference of travel, due to power-station Circuit Breakers opening on the failure of some individual car.

The continuance of the arcing, present after a "ground" or "short circuit" occurs, in the motor equipment, owing to the sluggishness of the heavy fuses to "blow;" results in the destruction of surrounding material and insulation.

Development of new flaws and faults in the apparatus, during a "short circuit" or "ground," owing to the abnormal carrying capacity of fuses employed.

The circuit is opened in less and less time as the circuit protected approaches nearer and nearer a "short circuit."

Positively no burning or blistering of contacts when circuit breaker opens.

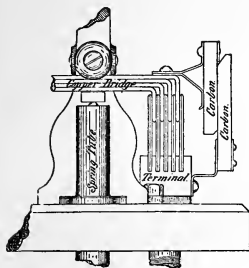
Means of keeping a record of each time circuit breaker is opened.

The device is simple and inexpensive to maintain.

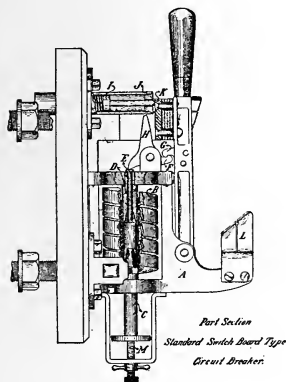
Adjustment independent of friction, springs or other features liable to cause alteration.

TYPE.	RATING AMPERES.		ADJUSTMENT AMPERES.			LIST PRICE.	
	Actual.	Nominal	Steps.	Lowest.	Highest.	Sill.	Dashboard.
RI	60	80	25	100	175	\$18.00	\$19.50
SI	60	80	50	150	250	18.00	19.50

Prices quoted on larger sizes and on special forms on receipt of information giving requirements.



Top View of Circuit Breaker.
Showing Carbon Protection.



Part Section
Standard Switch Board Type
Circuit Breaker.

"I-T-E" Circuit Breakers.—Continued.

Special Instructions.

In ordering state style of finish by number—(whether No. 1 or No. 3);—character of base—(when ordering No. 1 finish). Also state whether circuit breakers ordered are desired for direct or alternating current. If to be shipped unmounted, state thickness of switchboard on which the circuit breaker will be used.

The "I-T-E" Circuit Breakers can be furnished on plain, polished or enameled slate or marble, as desired. Unless otherwise ordered slate bases will be furnished.

Special size and style bases will be furnished on receipt of definite information, for which special prices will be given on application.

We are prepared to furnish "I-T-E" Circuit Breakers to meet the varying requirements of storage battery work on receipt of definite information.

The "I-T-E" Circuit Breaker has frequently been used as an amperemeter for obtaining readings of sudden flows of current. When the Circuit Breaker is desired for such work, if advised, we will carefully calibrate the same for each adjustment throughout its range.

ACTUAL RATING.—The Cutter Electrical and Manufacturing Co. Standard. Heating of any part of Circuit Breaker not to exceed 20 deg. C. above surrounding atmosphere after a 10-hour consecutive flow of current, as tabulated in column under heading of actual rating.

IMPORTANT NOTICE.—While the range of the "I-T-E" Circuit Breaker is very great and allows of large jump of current, it must not be used for carrying continuously current in excess of its actual rating.

Detail Section of "I-T-E" Circuit Breaker, Standard Switchboard Type.

- | | |
|---------------------------|--------------------------------------|
| A Iron Jacket. | H Striker Plate to throw Switch out. |
| B Solenoidal Coil. | I Spring Piston. |
| C Movable Plunger. | J Spring Tube, head removable. |
| D Fixed Plug. | K Steel Striker Plate on Arm. |
| E Striker Pin. | L Buffer Springs. |
| F Catch of Striker Plate. | M Adjusting Screen. |
| G Catch of Switch Arm. | |

Diagram of Connections of "I-T-E" Current Breakers.

Diagram No. 1.

Showing method of connecting "I-T-E" Circuit Breaker and protected Terminal Fuse Shunt Block.

Diagram No. 2.

Showing method of connecting Double Pole "I-T-E" Circuit Breakers.

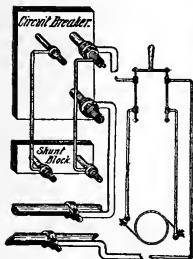


Diagram No. 1.

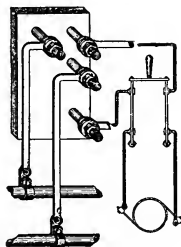


Diagram No. 2.

CUT=OUTS.



STRAIGHT (LONG), No. 900.

Code Word.

Fixture Cut-outs.

List No.

List Price.

Exalted

900 Straight (Long), each.....\$0.32



QUADRANT, No. 901.

Exalting

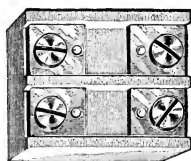
901 Quadrant, each..... .32



MIDGET, No. 902.

Examination

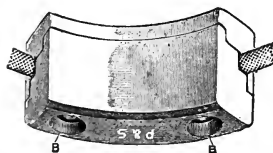
902 Midget, each..... .15



MIDGET, D. P., No. 903.

Examine

903 Midget, double pole, each..... .25

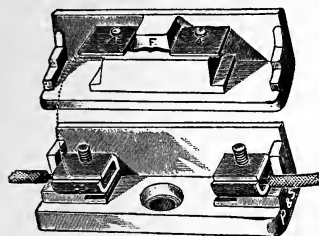


No. 18.

Examining

This is a Fixture Cut-out with a cover which can be removed to renew fuse. It is small enough for smallest canopy.

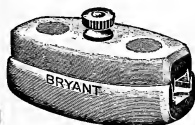
18 Covered Bug Cut-out, each..... .12



No. 19, OPEN.



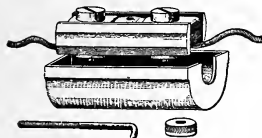
No. 24487—Open.



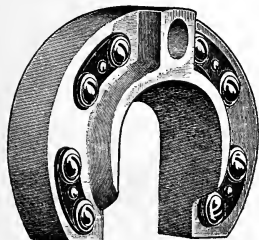
No. 24487—Covered.



No. 61119



No. 2395.



No. 946

Fixture Cut-outs—(Continued).

This is similar to No. 18, but is made straight instead of curved, and can be used wherever a single pole Cut-out is desirable, or where wires are run over moldings or cornices

Code Word.	List No.	List Price.
<i>Examined</i>	19 Covered Bug Cut-out, each	\$0.12

Use No. 18 for fixtures using 5 amperes and under. For larger fixtures use No. 19.

The Bryant Bug Cut Out.

Code Word	List No	B. E. No	List Price
<i>Vineyard</i>	24487	1106 Each	\$0.12

Concave-head contact screws in the base, and convex in the cap, insure a perfect contact where the two connecting wires are of different gauge.

The cover, being held in place by but one nut, can be readily removed for fusing.

<i>Exactness</i>	61119	Single Pole Electrolier Cut-out, 6 light. each.	15
<i>Exactor</i>	61116	" " " " 8 " Hard	
		Rubber Base, 1½ inch long, each.	10

<i>Exaggerate</i>	2394	Newton Bug Cut-out only, each.	.10
<i>Exaltation</i>	2395	" " " complete, with cover, each	.20

Medium Horseshoe Cut-out.

<i>Euphony</i>	946	Each.	.15
----------------	-----	-------	-----

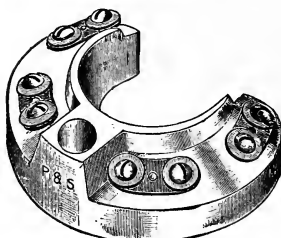


No. 54.

Medium Horseshoe Cut-out—(Continued).

Code Word.	List No.	List Price.
<i>Europe</i>	54 Bracket Cut-out,	\$0.04½

This is a very small double pole Horseshoe Fixture Cut-out, measuring only 2½ inches at its greatest diameter.



No. 74.

<i>European</i>	74 Horseshoe, each.....	.09
-----------------	-------------------------	-----



No. 930.

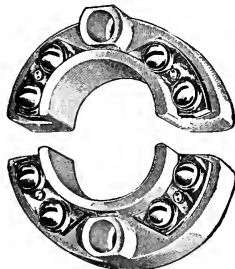
Fixture Cut-outs.

<i>Chronograph</i>	930 Horseshoe, each.....	.20
--------------------	--------------------------	-----



No. 931

<i>Chronicle</i>	931 Horseshoe, each.....	.20
------------------	--------------------------	-----



No. 933.

<i>Estranged</i>	933 Horseshoe, per pair.....	.18
------------------	------------------------------	-----

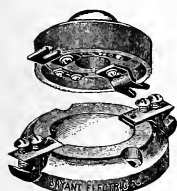


No. 932.

Code Word.
Estrange

Fixture Cut-outs—(Continued).

List No.	List Price.
932 Horseshoe, each.....	\$0.20



CLEAT, No. 870.

Caliph

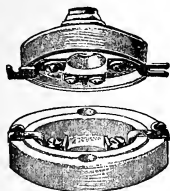
870 Cleat, each20
-----------------------	-----



SQUARE BASE MOULDING, No. 926.

Call

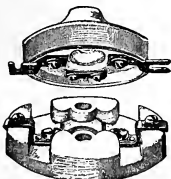
926 Square Moulding, each.....	.20
--------------------------------	-----



CONCEALED, No. 871.

Callig

871 Concealed, each.....	.20
--------------------------	-----



COMBINATION, No. 872.

Callous

872 Combination, each.....	.20
----------------------------	-----

K. W. Ceiling Rosette.

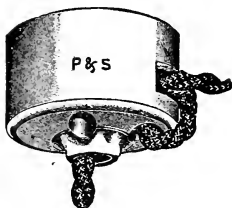
PACKED IN INDIVIDUAL BOXES.



No. 950.

K. W. Cleat Rosette—Improved Side Pieces.

Code Word.	List No.	List Price.
<i>Chuckling</i>	950 Each	\$0.18



No. 170.

Self-Tying Ceiling Button.

<i>Renset</i>	170 Per 100	2.75
---------------	-------------------	------



No. 2300.

Dovetail Rosettes.

<i>Caleb</i>	2300 No. 101, for Cleat Work, each35
--------------	--	-----



No. 2301.

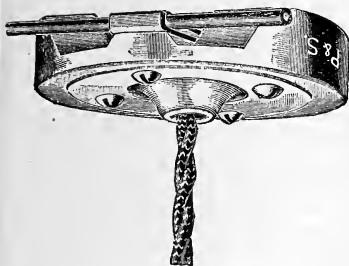
<i>Calif</i>	2301 No. 102, for Concealed Work, each40
--------------	--	-----



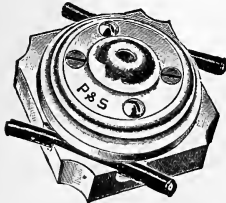
No. 232.



No. 2303.



No. 6.



No. 80.

Dovetail Rosettes—(Continued).

Code Word.	List No.	List Price.
<i>Calibre</i>	2302 No. 104, for Moulding Work, each.....	\$0.40

<i>Calico</i>	2303 No. 106, for Moulding Work, each.....	.40
---------------	--	-----

Fuseless Rosette.

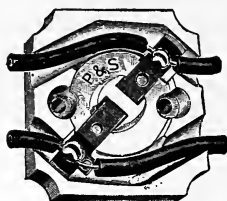
This Fuseless Rosette is useful in factories and places where it is difficult to replace fuse. Five or six can be used on a branch with small branch block. It is fitted with a substantial clamp for wire, which also has a screw and washer at inner end to fasten the lamp cord to.

<i>Ether</i>	6 Fuseless Rosette, each.....	.06
--------------	-------------------------------	-----

Combination Rosette.

Made in three styles, viz.: No. 80, for cleat and concealed; No. 81, for moulding or 3 wire and concealed; No. 82, full combination, for cleat, moulding, 3 wire and concealed. With No. 82 you can do any kind of wiring with the same Rosette, and it is only necessary to carry one kind in stock to be able to do any job.

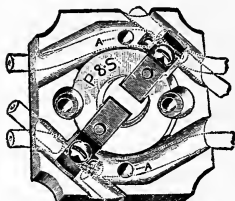
<i>Ethics</i>	80 For Cleat and Concealed, each.....	.14
---------------	---------------------------------------	-----



No. 81.

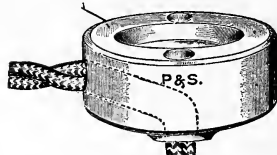
Combination Rosette—(Continued).

Code Word.	List No.	List Price.
<i>Etiquette</i>	81 For Moulding, Concealed and 3 wire, each.....	\$0.14



No. 82.

<i>Eugenie</i>	82 For Cleat, Moulding, Concealed and 3 wire, each.....	.14
----------------	---	-----

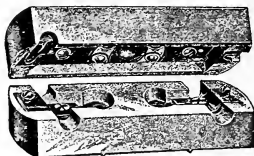


No. 70.

"P. & S." High Insulation Ceiling Button.

This Ceiling Button effectually keeps the wire away from the ceiling. It is small, being but $1\frac{1}{4}$ inches in diameter.

<i>Eulogist</i>	70 Ceiling Button, per 100.....	2.50
-----------------	---------------------------------	------

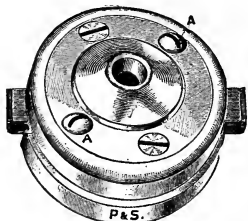


No. 20030.

Bryant Rosette and Cleat Combined.

The upper and lower parts are fastened together by the well-known K. W. Fastening.

<i>Renfrew</i>	20030 Each12
----------------	------------------	-----



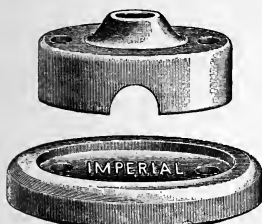
No. 40.—COVERED.

"P. & S." Ceiling Rosette with Cap.

<i>Eustace</i>	40 Each.....	.12
----------------	--------------	-----

Imperial Rosettes.

Code Word.	List No.		List Price.
<i>Somnambulator</i>	25067	Two-piece Rosette, per 1,000.....	\$30.00
<i>Somnambulo</i>	25068	Base, only, ".....	15.00
<i>Somnambulist</i>	25069	Cap, ".....	15.00
<i>Somnambulist</i>	25070	Solid Rosette, ".....	30.00



No. 25067.

Plain Rosette, No Fuse.

	List Price.
<i>Callow</i> 869 Plain Rosette, each.....	\$0.15

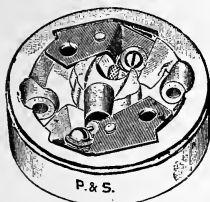
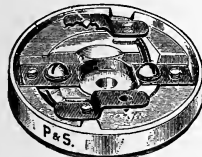


No. 869.

"P. & S." Concealed Rosette.

This is an adaptation of No. 40 Ceiling Rosette to concealed work. To remove cap, loosen the round head screws AA one or two turns.

<i>Eta</i> 39 For Concealed Work, each.....	.12
---	-----



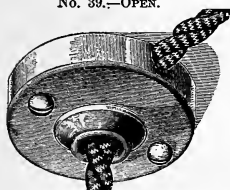
No. 39.—OPEN.

Porcelain Ceiling Button.

This Ceiling Button is used when it is desired to suspend the lamp at a distance from the rosette cut-out. No. 1323 is 1½ inches, and No. 1324 is 2½ inches diameter.

<i>Eternally</i> 1323 1½ inches in diameter, per 100.....	2.00
---	------

<i>Eternity</i> 1324 2½ inches in diameter, per 100.....	3.50
--	------



No. 1323.



No. 1324.

Anchor Covered Chandelier Cut-Out.

No. 20187.



No. 20188.



No. 20189.



No. 20191.

Code Word.	List No.	List Price Each.
<i>Roomful</i>	20186 Plain	\$0.06
<i>Roomily</i>	20187 Covered .....	.12

Concealed Ceiling Cut-Out.

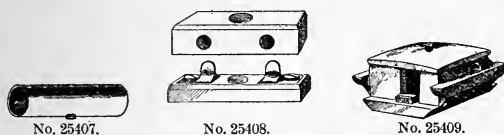
<i>Roominess</i>	2018812 3/4
------------------	-------------	---------

Cleat Ceiling Cut-Out.

<i>Roomsome</i>	20189 Cleat Ceiling Cut-Out.....	.12 3/4
<i>Roomless</i>	20190 " " " with solid lug .....	.16

Combination Cut-Out.

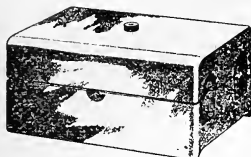
<i>Roomth</i>	2019112 3/4
---------------	-------------	---------



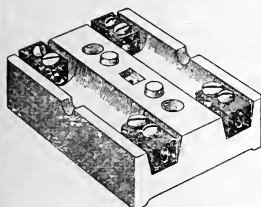
No. 25407.

No. 25408.

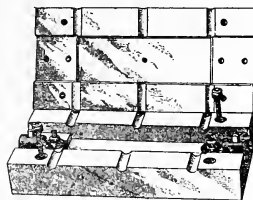
No. 25409.



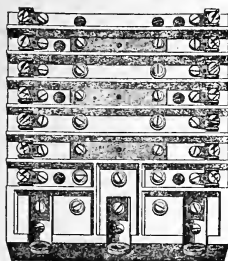
No. 25413.



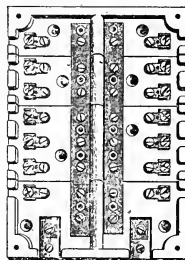
No. 25417.



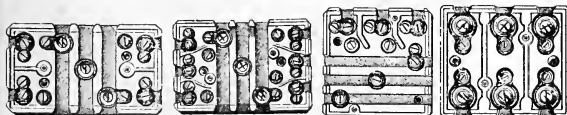
No. 25424.



Three-Wire Tablet Board.



Two-Wire Tablet Board.



No. 25424.

No. 25425.

No. 25426.

No. 25427.

New Style Cut Outs.

Code Word.	List No.		
<i>Acnuline</i>	25407	Rubber Covered	
		Midget Cut Out	.....
<i>Acnulse</i>	25408	Porcelain Cut Out	
		Cleat	.....

P. Branch Cut Outs.

	Covered.		
<i>Acceleration</i>	25409	10 amperes capacity	
<i>Accelerative</i>	25410	25 " "	
<i>Accelerator</i>	25411	50 " "	
<i>Acceleratory</i>	25412	100 " "	

P. Main Cut Outs.

	Covered.		
<i>Accend</i>	25413	10 amperes capacity	
<i>Accendibility</i>	25414	25 " "	
<i>Accendible</i>	25415	50 " "	
<i>Accension</i>	25416	100 " "	

P. Main Cut Outs.

	Uncovered.		
<i>Accelerator</i>	25417	10 amperes capacity	
<i>Accelerant</i>	25418	25 " "	
<i>Accelerate</i>	25419	50 " "	
<i>Acceleration</i>	25420	100 " "	

P. 500 Volt Motor Cut Outs.

<i>Acceptableness</i>	25421	30 amperes capacity	
<i>Acceptability</i>	25422	60 " "	
<i>Acceptably</i>	25423	150 " "	

Multiple Circuit Tablet Boards.

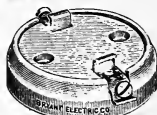
Built in any number of circuits from four up.

Branch Cut Out Block.

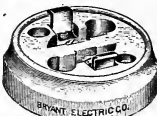
	P. No.		
<i>Acceptancy</i>	25424 (1299)	Two or three wire, capacity 30 amperes.	
<i>Acceptation</i>	25425	1235 Two or three wire, capacity 30 amperes	
<i>Acception</i>	25426	2235 Three wire, single branch, capacity 30 amperes.	.....

Main Cut Outs.

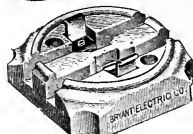
<i>Acceptus</i>	25427	1365 Three wire, main, capacity 25 amperes.	
<i>Acceptor</i>	25428	1265 Three wire, main, capacity 30 amperes.	



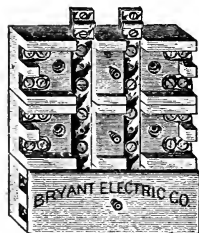
No. 24477



No. 24478.



No. 24479.



No. 20725.

B. E. Rosettes.

Patented September 13, 1887. April 30, 1889; and April 23, 1893.

Caps are interchangeable and will fit any B. E. Rosette Base.

The principal advantage of the B. E. Rosette lies in the adjustable spring contact in the cap. Slight pressure of a screw-driver against the spring will tighten or loosen the contact as desired.

Code Word	List No	B. E. No	List Price Each.
<i>Volant</i>	24477	1082 For Cleat Work	\$0.15

<i>Volley</i>	24478	1083 For Concealed Work	.15
---------------	-------	-------------------------	-----

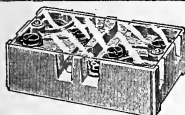
<i>Volition</i>	24479	1084 Square Base for Moulding Work	.15
-----------------	-------	------------------------------------	-----

Bryant Porcelain Tablet Board.

For Two-Wire System.

<i>Sacque</i>	20723	1085	2 Circuits	1.00
<i>Sacrit</i>	20724	1086	4 "	2.00
<i>Sacrament</i>	20725	1087	6 "	3.00
<i>Sacramental</i>	20726	1088	8 "	4.00
<i>Sacramidm</i>	20727	1089	10 "	5.00
<i>Sacrite</i>	20728	1090	12 "	6.00
<i>Sacree</i>	20729	1091	14 "	7.00

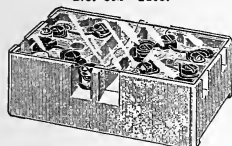
Each block or section includes two Circuits.



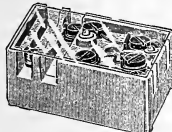
No. 891-1435.



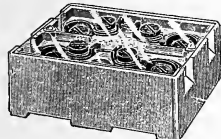
No. 892-1465.



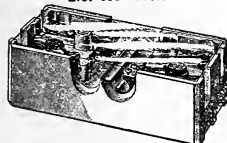
No. 893-1487.



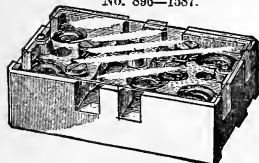
No. 894-2835.



No. 895-1565.



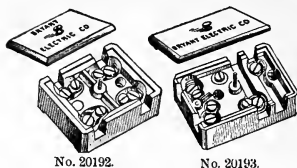
No. 896-1587.



No. 897-1535.

Bryant-Edison Main and Branch Blocks with Mica Cover.

Code Word.	List No.	List Price.
<i>Encounte</i>	891 No. 1435, Double Pole Branch, capacity 30 Amperes, each	\$0.90
<i>Encounte</i>	892 No. 1465, Double Pole Main, capacity 30 Amperes, each .....	.77
<i>Encounting</i>	893 No. 1487, Double Pole, Double Branch, capacity 30 Amperes, each	1.80
<i>Ende</i>	894 No. 2835, Double Pole, Single Branch, capac- ity 30 Amperes, each	1.10
<i>Ended</i>	895 No. 1565, Double Pole, Main, capacity 75 Amperes, each	1.65
<i>Ending</i>	896 No. 1587, D. P. Double Branch, 75 Amperes, will take No. 00 B. & S. wire, each	6.25
<i>End</i>	897 No. 1535, Double Pole, Double Branch, for wire up to No. 4 B. & S., capacity 75 Amperes, each	2.00

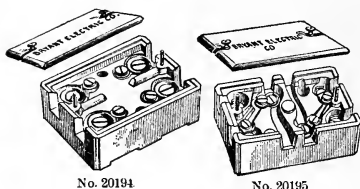


No. 20192.

No. 20193.

Bryant-Edison Fuse Blocks.**Main and Branch—Porcelain Covered.**

Code Word	List No	List Price Each.
<i>Rooney</i>	20192 1465—30 Ampere, S. P. Main Line Cut-Out.	.50
<i>Ross</i>	20193 2835—30 Ampere, D. P. Single Branch Cut-Out	.60

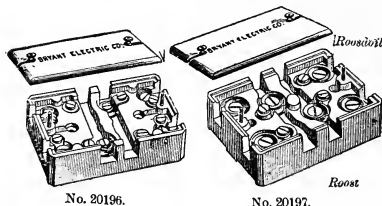


No. 20194

No. 20195

<i>Roop</i>	20194 1565—75 Ampere, D. P. Main Line Cut-Out .	.85
-------------	---	-----

<i>Roombach</i>	20195 1435—25 Ampere, D. P. Double Branch Cut-Out	.55
-----------------	---	-----

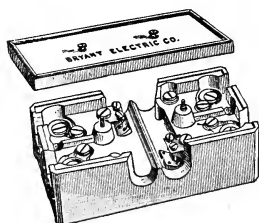


No. 20196.

No. 20197.

<i>Rossell</i>	20196 1487—30 Ampere, D. P. Double Branch Cut-Out	.85
----------------	---	-----

<i>Ross</i>	20197 1535—75 Ampere D. P. Double Branch for Wire up to No. 4 B. & S. Gauge.....	1.80
-------------	---	------



No. 20198.

<i>Roostock</i>	20198 1587—75 Ampere D. P. Double Branch for Wire up to No. 00 B. & S. Gauge	3.50
-----------------	---	------

Edison Link Fuse Cut-outs on Porcelain Bases.

These Cut-outs have been designed for use on both the two and the three-wire systems, and are intended to protect circuits having a potential of not over 125 volts across one link.



No. 61569

Code Word.	List No	List Price.
<i>Evangelic</i>	61569 Single Pole Main Line Cut-out, capacity 75 amperes, each .....	.75



No. 61465.

<i>Essential</i>	61465 Double Pole Main Line Cut-out, capacity 80 amperes, each.....	.70
------------------	--	------------



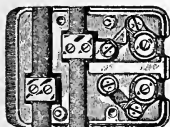
No. 61565.

<i>Evaporating</i>	61565 Double Pole Main Line Cut-out, capacity 75 amperes, each.....	1.20
--------------------	--	-------------



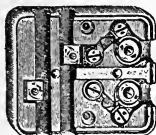
No. 62835.

<i>Evaporated</i>	62835 Double Pole Single Branch Cut-out, capacity 80 amperes, each.....	1.00
-------------------	--	-------------



No. 61243.

<i>Evangelist</i>	61243 Double Pole Single Branch Cut-out for wire up to No. 0 B. W. G., capacity 75 amperes, each..	2.00
-------------------	---	-------------



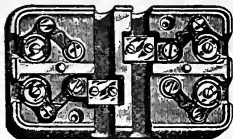
No. 61245.

<i>Evaporate</i>	61245 Double Pole Single Branch Cut-out for wire up to No. 6 B. W. G., capacity 75 amperes, each..	1.50
------------------	---	-------------



No. 61487.

<i>Evasion</i>	61487 Double Pole Double Branch Cut-out, capacity 80 amperes, each.....	1.50
----------------	--	-------------



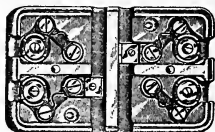
No. 61587.

Edison Link Fuse Cut-outs on Porcelain Bases

—(Continued).

Code Word. List No. List Price.

Esoused 61587 Double Pole Double Branch Cut-out for wire up
to No. 0 B. W. G., capacity 75 amperes, each. \$4.00



No. 61535.

Esogy 61535 Double Pole Double Branch Cut-out for wire up
to No. 6 B. W. G., capacity 75 amperes, each. 2.50



No. 61299.

Esopying 61299 Three to Two-Wire Double Branch Cut-out,
capacity 30 amperes, each. 1.70



No. 61265.

Esoguire 61265 Three-Wire Main Line Cut-out, capacity 30
amperes, each. .85



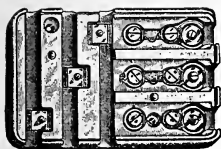
No. 61365.

Esoguy 61365 Three-Wire Main Line Cut-out, capacity 75
amperes, each. 1.75



No. 62235.

Esogayed 62235 Three-Wire Single Branch Cut-out, capacity 30
amperes, each. 1.50



No. 61247.

Edison Link Fuse Cut-Outs on Porcelain Bases.

(Continued).

Code Word	List No	List Price.
<i>Essuying</i>	61247	Three-Wire Single Branch Cut-out, capacity 75 Amperes, each..... \$2.50



No. 61235.

<i>Essence</i>	61235	Three-Wire Double Branch Cut-out, capacity 30 Amperes, each 2.25
<i>Roumige</i>	28230	D. P. Double Branch Porcelain Cover, 10 Amp . .40



No. 62945.



No. 62569.

Edison Plug Cut-Outs on Porcelain Bases.

These Cut-outs have been designed to protect circuits having a maximum current of 30 amperes, at a maximum potential of 125 volts.

MAXIMUM CAPACITY, 30 AMPERES.



No. 61935.



No. 62945.

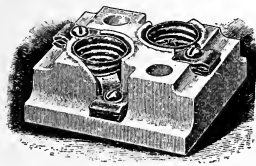
<i>Escurtel</i>	62569	Single Pole Main Line Cut-out, each. .... .30
<i>Escorting</i>	62965	Double Pole Main Line Cut-out, each..... .50



No. 62587.

<i>Escurue</i>	61935	Double Pole Single Branch Cut-out, each .... .60
<i>Esentecheon</i>	62945	Double Pole Single or Double Cross-over Branch, each..... 1.30

<i>Esulent</i>	62587	Double Pole Double Branch Cut-out, each..... 1.10
----------------	-------	---

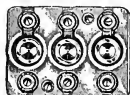


No. 68020.

<i>Rommer</i>	68020	D. P. Single or Double Cross-over ..... .60
---------------	-------	---



No. 62199.



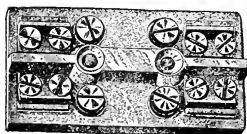
No. 62165.



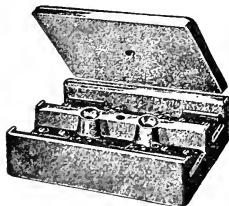
No. 62135.



No. 66327



No. 884.



No. 938.

Edison Plug Cut-outs on Porcelain Bases— (Continued).

Code Word.	List No.	List Price.
<i>Especial</i>	62199	Three to Two-Wire Double Branch, each.....\$1.25

<i>Esposal</i>	62165	Three-Wire Main Line, each.....	.80
----------------	-------	---------------------------------	-----

<i>Esposse</i>	62135	Three-Wire, Double Three-wire Branch, each..	1.50
----------------	-------	--	------

Edison Fuse Plugs.

FOR USE WITH PLUG CUT-OUTS ON PORCELAIN BASES.

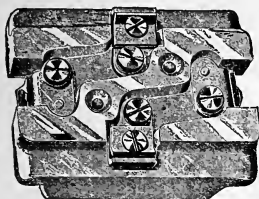
<i>Escalade</i>	66327	Fuse Plug, maximum capacity, 3 amperes, each,	.12
<i>Escapade</i>	66329	" " " 6 " "	.12
<i>Escape</i>	66331	" " " 10 " "	.12
<i>Escapement</i>	66333	" " " 12 " "	.12
<i>Escaping</i>	66335	" " " 15 " "	.12
<i>Escarp</i>	66337	" " " 20 " "	.12
<i>Eschew</i>	66339	" " " 25 " "	.12
<i>Escort</i>	66341	" " " 30 " "	.12

Sawyer-Man Main Cut-outs.

<i>Established</i>	884	Capacity, 10 amperes, each.....	.45
<i>Estate</i>	885	" 25 " " .....	.60
<i>Esteem</i>	886	" 50 " " .....	.85
<i>Esteemed</i>	887	" 100 " "	1.35

Sawyer-Man Main Cut-outs, Covered.

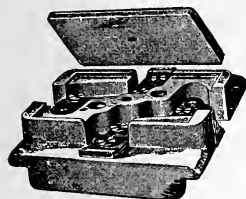
<i>Esteeming</i>	938	10 Amperes, each.....	.40
<i>Esthetic</i>	939	25 " " .....	.65
<i>Esther</i>	940	50 " " .....	.80
<i>Estimable</i>	941	100 " "	1.00



No. 888

Sawyer-Man Branch Cut-outs.

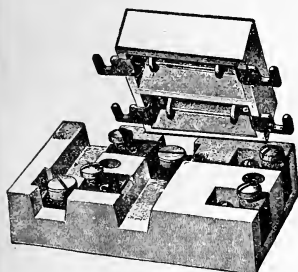
Code Word.	List No.	List Price.
<i>Estimate</i>	888 Capacity, 15 Amperes, each.....	.14
<i>Estimated</i>	889 " 25 " " .....	.20
<i>Estimating</i>	890 " 50 " " .....	.44



No. 942.

Sawyer-Man Branch Cut-outs, Covered.

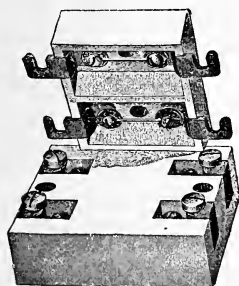
<i>Estimation</i>	942 15 Amperes, each.....	.14
<i>Estimative</i>	943 25 " " .....	.22
<i>Estoppel</i>	944 50 " " .....	.46



No. 881.

K. W. Branch Cut-outs.

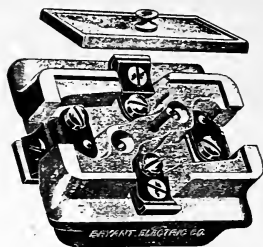
<i>Estray</i>	881 10 Amperes, each.....	.50
<i>Estreet</i>	882 30 " " .....	.90
<i>Eth</i>	883 50 " "	1.00



No. 878.

K. W. Main Line Cut-out.

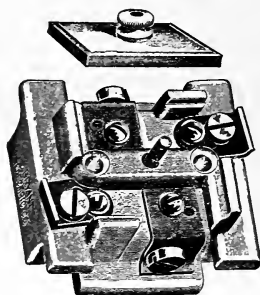
<i>Etched</i>	878 10 Amperes, each.....	.50
<i>Etching</i>	879 30 " " .....	.80
<i>Eternal</i>	880 50 " " .....	.90



No. 20172.

Improved Form of S. M. Branch Cut-Out.

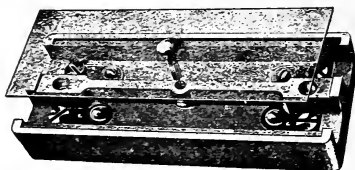
Code Word.	List No.	List Price
<i>Romist</i>	20172 25 Amperes, each.....	\$0.45
<i>Romp</i>	20173 50 " " .....	.70



No. 20174.

Special Branch Blocks.

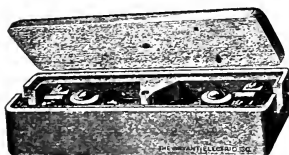
<i>Rondeau</i>	20174 10 Amperes, each.....	.40
<i>Rondel</i>	20175 25 " " .....	.65



No. 20176.

500 Volt D. P. Cut-Out.

<i>Rondo</i>	20176 10 amperes, mica cover, each.....	.25
<i>Accompt</i>	25468 10. " porcelain cover, each ..	.25



No. 945.

500 Volt S. P. Cut-Out.

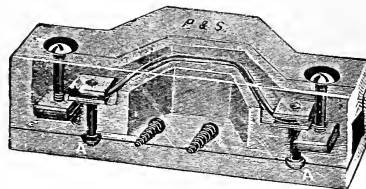
<i>Rouga</i>	20177 25 Amperes, each.....	.80
<i>Rout</i>	945 100 " "	1.50



Nos. 2588 to 2592.

Code Word.
Excel
Excelled
Excellence
Excellency
Excellent

List No.		Soapstone Base.	List Price.
2588	25 Amperes, each.....		\$2.50
2589	50 " " ".....		2.75
2590	100 " " ".....		3.00
2591	250 " " ".....		3.50
2592	400 " " ".....		4.00



No. 38.

Essentially

Covered Motor Cut-out.

Single Pole.

This Cut-out is designed for motors on power circuits, and as it has a fuse 3 inches long, it is especially adapted for 500 volt circuits. The channel which incases the fuse is of such a shape as to cause the fuse to be bent at four angles, which adds to the efficiency, as it is difficult to maintain an arc around an angle. To remove fuse cover, to renew fuse, loosen screws AA one-half turn.

38	20 Amperes, each.....	25
----	-----------------------	----



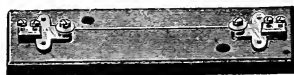
No. 2409.

Establish

Special Fuse Holders.

With Cable Terminals.

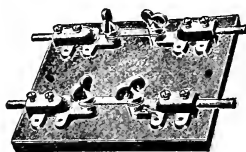
2409	each.....	3.50
------	-----------	------



No. 2576.

Example
Exasperate
Exasperated
Exacrate

Single Pole.		
2576	1 to 25 Amperes, each.....	1.00
2577	Over 25 to 100 Amperes, each.....	1.50
2578	" 100 " 300 " ".....	2.50
2579	" 300 " 600 " ".....	3.50



No. 2580.

Exacrated
Exacrating
Exacator
Exacration

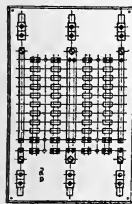
Double Pole.		
2580	1 to 25 Amperes, each.....	2.00
2581	Over 25 to 100 Amperes, each.....	3.00
2582	" 100 " 300 " ".....	5.00
2583	" 300 " 600 " ".....	7.00

Three Pole.

2584	1 to 25 Amperes, each.....	3.00
2585	Over 25 to 100 Amperes, each.....	4.50
2586	" 100 " 300 " ".....	7.50
2587	" 300 " 600 " ".....	10.50

Ten per cent. advance for 500 volts.

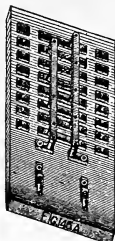
Cut-Out and Distributing Boards.



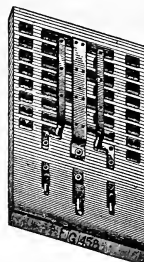
No. 101 M.



No. 105 M.



No. 145 A.

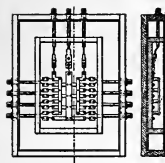


No. 145 B.

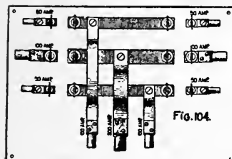
We illustrate a few of the many different styles of Cut-Out and Distributing Boards.

As most of these Boards are made in special sizes to suit the various conditions, it is difficult to list them. We have facilities for furnishing any style of these Boards, and will quote prices on receipt of specifications and requirements.

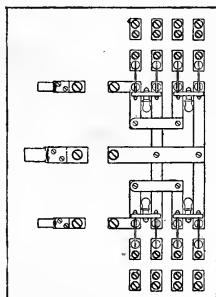
Boards may be furnished with plain slate, marbleized slate, or marble backs. Cut-Out boxes are made with single or double slate lining, and covers made of hardwood, slate or glass.



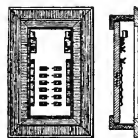
No. 17 M.



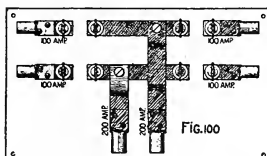
No. 104 M.



No. 145 S.



No. 135 M.



No. 100 M.

Cut-Outs and Distributing Boards.—(Continued.)

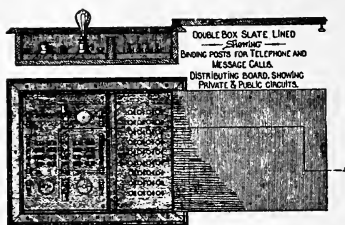


Fig. 146 M.

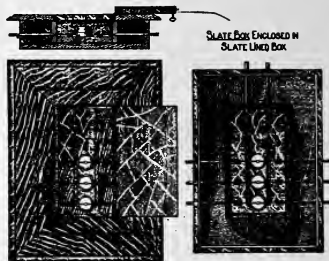


Fig. 147 M.

Main Branch Cut-Outs.

The Cut-Outs illustrated, Figs. 148 W and 149 W, are designed for large capacities and are for the purpose of taking circuits off from mains on each floor of large buildings. The Mains feed into the bottom of the Cut-Outs and out at the top, being fused at both points; if desirable, or copper strips may be placed instead of fuses. The circuits branch each way on the sides and can be fused for the capacity desired. For all Cut-Outs over 200 amperes, parallel fuses are used, insuring sufficient contact on the bottom of the fuses to carry the current without heating from lack of contact. The space occupied by the fuse tips is reset, making it impossible to twist the fuses when the set screw is screwed down, a feature not found in other Cut-Outs. The set screws are of steel, copper-plated, with slotted hexagon heads, enabling the use of either a wrench or screwdriver. The connections on the larger size of Cut-Outs are made with swivel lugs which are of ample carrying capacity. The polarities are separated by one-quarter inch slate insulation.

This style of Cut-Out is also made for the 3-Wire and 3-Wire convertible systems.

The neutral fuses and lugs are of twice the capacity of one of the outside to enable the wires to be thrown on the 2-wire system when desired.

Swivel lugs are used on all the Cut-Outs above 100 amperes.

The contacts are mounted on slate or marble bases.

In ordering these Cut-Outs state what size of wire is desired to connect to the terminals and they will be bored accordingly.

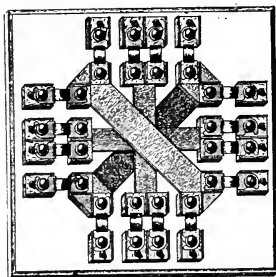


Fig. 148 W.

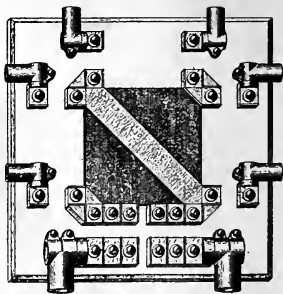


Fig. 149 W.

Code Word.	List No.	List Price. Each.
<i>Arthur</i>	855 Westinghouse Key.....	\$0.60
<i>Assimilate</i>	856 Westinghouse Keyless.....	.50



No. 855.



No. 849.



No. 859.

<i>Asa</i>	851 Thomson-Houston Key .....	.60
<i>Assimilating</i>	852 Thomson-Houston Keyless.....	.50
<i>Root</i>	849 Thomson-Houston Key, Short Shell .....	.60
<i>Routerop</i>	850 Thomson-Houston Keyless, Short Shell.....	.50

<i>Exceptice</i>	859 United States Key, each .....	.70
<i>Exceptless</i>	860 United States Keyless, each.....	.60

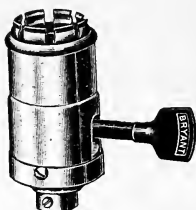
For Street Lighting.

WITH $\frac{3}{8}$ INCH OPENING.

<i>Calculate</i>	3608 Thomson-Houston Base, Keyless .....	.20
<i>Caldron</i>	3909 Westinghouse Base, " .....	.20
<i>Absenter</i>	25298 Thomson-Houston Base, Key .....	.30
<i>Absentation</i>	25299 Westinghouse Base, " .....	.30



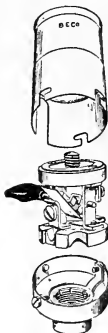
No. 3609.



No. 952.



No. 20204.



No. 20209.



No. 20202.

Sockets with Extra Long Keys.

Any Bryant Key Socket can be furnished with extra long key to special order. In ordering specify distance from outside of shell to end of handle.

Bryant No. 2A Key Sockets.

<i>Roosthouse</i>	20204	No. 2A, Thomson-Houston Key Socket	.20
<i>Roostleaf</i>	20205	No. 2A, Thomson-Houston Keyless Socket	.15
<i>Roostless</i>	20206	No. 2A, Westinghouse Key Socket	.20
<i>Roostlet</i>	20207	No. 2A, Westinghouse Keyless Socket	.15

Bryant No. 2B Fixture Sockets.

<i>Rooststork</i>	20208	Thomson-Houston Key Socket	.20
<i>Roosty</i>	20209	Thomson-Houston Keyless Socket	.15
<i>Rooste</i>	20210	Westinghouse Key Socket	.20
<i>Roostlie</i>	20211	Westinghouse Keyless Socket	.15

By means of the third bayonet joint, the shell is firmly "locked" to the base of the socket, making it impossible to "wobble" or "sag" when used with a heavy shade.

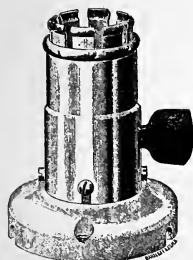
An examination of a sample lot will show its great advantage over the regular style.

Bryant Pull Socket.

<i>Roostenter</i>	20202	Thomson-Houston Base	.50
<i>Roostér</i>	20203	Westinghouse Base	.50

G. E. Pull Socket.

<i>Roosthair</i>	9400	Edison Base	.60
------------------	------	-------------	-----



No. 20212.

Bryant Standard No. 1 Wall Socket.

Code Word.	List No.		List Price. Each.
<i>Rope</i>	20212	No. 1, Thomson-Houston Key Wall Socket.....	\$0.25
<i>Ropeband</i>	20213	No. 1, Thomson-Houston Keyless Wall Socket.....	.20
<i>Ropedancer</i>	20214	No. 1, Westinghouse-Key Wall Socket.....	.25
<i>Ropeladder</i>	20215	Westinghouse Keyless Wall Socket.....	.20
<i>Ropemaker</i>	20216	U. S. Key Wall.....	.64
<i>Ropemat</i>	20217	U. S. Keyless Wall.....	.54

**Bryant No. 2B Fusible Wall Socket.**

<i>Absentaneous</i>	25300	Thomson-Houston Key, concealed.....	.36
<i>Absentment</i>	25301	" " " cleat.....	.36
<i>Absinthian</i>	25302	" " " moulding.....	.36
<i>Absinthiate</i>	25303	" " Keyless, concealed.....	.34
<i>Absinthiated</i>	25304	" " " cleat.....	.34
<i>Absinthino</i>	25305	" " " moulding.....	.34
<i>Absinthium</i>	25306	Westinghouse Key, concealed.....	.36
<i>Abais</i>	25307	" " " cleat.....	.36
<i>Abaisit</i>	25308	" " " moulding.....	.36
<i>Abaisianer</i>	25309	" " Keyless, concealed.....	.34
<i>Abaisiteness</i>	25310	" " " cleat.....	.34
<i>Abaisolution</i>	25311	" " " moulding.....	.34

Caps are interchangeable and will fit any K. W. Rosette Base. Shell fitted with three bayonet joints, making a rigid fastening.



No. 20222.

Bryant No. 2A Wall Socket.

<i>Ropetrick</i>	20222	No. 2A, Thomson-Houston Key Wall Socket...	.25
<i>Ropecalc</i>	20223	No. 2A, Thomson-Houston Keyless Socket.....	.20
<i>Ropeyarn</i>	20224	No. 2A, Westinghouse Key Wall Socket.....	.25
<i>Ropely</i>	20225	No. 2A, Westinghouse Keyless Wall Socket...	.20

Standard Edison Sockets.

No. 69323.

<i>Ropiness</i>	69323	Gen. Elec. Co. Key Socket with Fibre Ring, polished.....	.35
<i>Ropish</i>	69364	Gen. Elec. Co. Key Socket with Rubber Ring, polished.....	.40

Edison Sockets.



No. 69324

Code Word.	List No.	List Price. Each.
<i>Ropy</i>	69324 G. E. Keyless Socket $\frac{1}{2}$ in. Pipe, plain	\$0.30
<i>Roque</i>	69373 G. E. T. H. Keyless Socket $\frac{1}{2}$ in. Pipe, plain	.30



No 66223.

<i>Condor</i>	66223 Keyless Socket for $\frac{1}{2}$ in. Pipe, plain	.30
<i>Conduce</i>	66225 " " $\frac{1}{2}$ " polished	.35



No. 66235.

<i>Excreable</i>	66235 Keyless Electrolier Socket for $\frac{1}{2}$ in. Pipe, plain.	.30
<i>Excreate</i>	66237 " " " $\frac{1}{2}$ " polished	.35



No. 9319.

<i>Excretion</i>	9319 Keyless Socket for High Candle-Power Lamps	1.30
------------------	---	------



No. 4505.

<i>Roral</i>	4505 Socket for Series Incandescent Lamp for Alternating Current Circuits	2.00
--------------	---	------



No. 4504.

Edison Sockets—(Continued).

Code Word	List No	List Price Each.
<i>Rorid</i>	4504	Socket for Series Incandescent Lamp for Arc Circuits \$2.00



No. 60666.

<i>Evenness</i>	60666	Edison Hard Rubber Waterproof Socket 60
<i>Roriferous</i>	20226	T. H. Hard Rubber Waterproof Socket..... 60



No. 66307.

<i>Rorifluent</i>	20227	Edison Porcelain Waterproof Socket..... .35
<i>Roriquat</i>	20228	T. H. Porcelain Waterproof Socket ..... .35



No. 66297.

<i>Rorulent</i>	66307	Edison Key Wall Socket, polished..... .60
-----------------	-------	---

<i>Rory</i>	66297	Edison Key Wall Socket, plain 40
<i>Rorory</i>	66299	Edison Key Wall Socket, polished..... .45



No. 69368 and 69376.

Edison Sockets and Receptacles.—(Continued.)

Code Word.	List No.	List Price. Each.
<i>Rosechurfer</i>	69368	Key Wall Receptacle, Edison Base Lamp, Porcelain Base, polished brass \$0.40
<i>Rosecolor</i>	69376	Key Wall Receptacle, T. H. Base Lamp, Porcelain Base, polished brass ..... .40



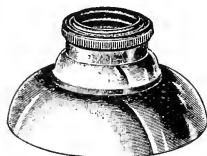
No. 69369 and 69377.

<i>Rosecolored</i>	69369	Keyless Wall Receptacle, Edison Base Lamp, Porcelain Base, polished brass ..... .35
<i>Rosecut</i>	69377	Keyless Wall Receptacle, T. H. Base Lamp, Porcelain Base, polished brass ..... .30



No. 66281, 50978 and 50979.

<i>Rosecut</i>	66281	Edison Keyless Wall Socket, polished ..... .40
<i>Rose</i>	50978	Edison Keyless Receptacle, with D. P. Fuse, plain ..... .45
<i>Rosual</i>	50979	Edison Keyless Receptacle, with D. P. Fuse, polished ..... .55



No. 66285.

<i>Rosetta</i>	66285	Edison Keyless Wall Socket, polished ..... .35
----------------	-------	--



No. 66272 and 66273.

<i>Rosebay</i>	66271	Edison Keyless Wall Socket, plain ..... .25
<i>Rosebug</i>	66273	Edison Keyless Wall Socket, polished ..... .30

Weather-proof Sockets.

H. W. Johns Mfg. Co.'s Moulded Mica Lamp Sockets.

Made in Brown or Black.



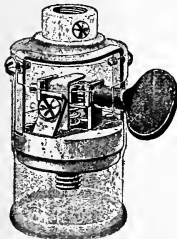
No. 3203.



No. 3202.



No. 3728.



No. 20254.

Code Word.	List No.	List Price. Each.
<i>Architect</i>	3203	Thomson-Houston Base, Pendant Socket, 6 inch wires..... \$0.25
<i>Arching</i>	3202	Westinghouse Base, Pendant Socket, 6 inch wires, each..... .25
<i>Archibald</i>	3201	Edison Base, Pendant Socket, 6 inch wires..... .25
<i>Archer</i>	3204	" Mica Wall Socket..... .40
<i>Becoming</i>	3728	" Mica Bracket Socket..... .40

With Extra Long Wires.

Mica Sockets, with wires	6 inches long	.....	.25
" " "	12 "	.....	.27½
" " "	18 "	.....	.30
" " "	24 "	.....	.35
" " "	30 "	.....	.40
" " "	3 feet long	.....	.45
" " "	4 "	.....	.55
" " "	5 "	.....	.65
" " "	6 "	.....	.75
" " "	7 "	.....	.85
" " "	8 "	.....	.95
" " "	10 "	.....	1.15

<i>Lactation</i>	3383½	Thomson-Houston Base, Mica Wall Socket...	.40
<i>Lactool</i>	3384	Westinghouse Base, Mica Wall Socket...	.40
<i>Bedeck</i>	3730	Thomson-House Base, Mica Bracket Socket...	.40
<i>Bedding</i>	2729	Westinghouse Base, Mica Bracket Socket...	.50

Will fit ½ inch pipe bracket.

Perkins Sockets.

Plain Sockets.

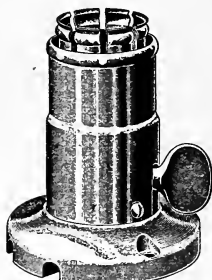
<i>Rosewort</i>	20254	Key Socket for Thomson-Houston Base.....	.40
<i>Rosierucian</i>	20255	Keyless Socket for Thomson-Houston Base...	.35



No. 20257.

Perkins Sockets.—Continued.**Plain.**

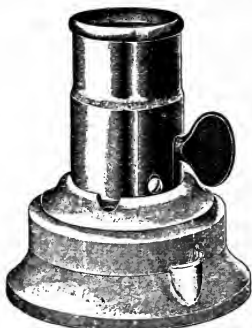
Code Word.	List No.	List Price. Each.
<i>Ronied</i>	20256 Key Socket for Westinghouse Base.....	\$0.40
<i>Rosier</i>	20257 Keyless Socket, Westinghouse Base.....	.35



No. 20260.

Wall.

<i>Rosia</i>	20258 Key Wall Socket for Thomson-Houston Base...	.45
<i>Rosness</i>	20259 Keyless Wall Socket for Thomson-Houston Base...	.40
<i>Rosnail</i>	20260 Key Wall Socket for Westinghouse Base.....	.45
<i>Rosny</i>	20261 Keyless Wall Socket for Westinghouse Base....	.40



No. 20262.

Fusible Wall.

<i>Rosland</i>	20262 Key Fusible Wall Socket for Thomson-Houston Base .....	.75
<i>Rosmotive</i>	20263 Keyless Fusible Wall Socket for Thomson Houston Base.....	.70
<i>Ross</i>	20264 Key Fusible Wall Socket for Westinghouse Base .....	.75
<i>Rosell</i>	20265 Keyless Fusible Wall Socket for Westinghouse Base .....	.70

This Fusible Wall Socket is a combination of the Dove-tail Rosette Cut-out and Perkins Socket. In ordering please state what style of base is required; whether cleat, concealed or moulding rosette.



No. 20269.

Anchor Sockets.

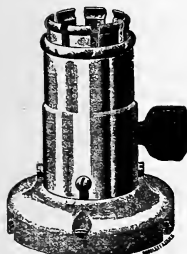
Plain.

Code Word.	List No.	List Price. Each.
<i>Rostel</i>	20269 Key Socket, T. H. Base.....	\$0.18
<i>Rostelate</i>	20270 Key Socket, Westinghouse Base.....	.18
<i>Roster</i>	20271 Keyless Socket, T. H. Base.....	.16
<i>Rostrel</i>	20272 Keyless Socket, Westinghouse Base.....	.16

Special 3-8 Keyless Socket.

Will screw on $\frac{3}{8}$ inch pipe for street fixtures, brackets, etc.

<i>Rostrale</i>	20273 Special for T. H. Base.....	.20
<i>Rostrum</i>	20274 Special for Westinghouse Base.....	.20



No. 20276.

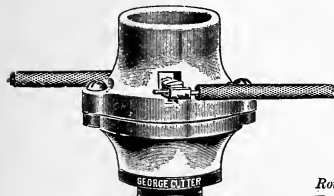
Wall.

<i>Rosulate</i>	20275 Key Socket, T. H. Base ..	.20
<i>Rot</i>	20276 Key Socket, Westinghouse Base.....	.20
<i>Rota</i>	20277 Keyless Socket, T. H. Base.....	.18
<i>Rotal</i>	20278 Keyless Socket, Westinghouse Base .....	.18

Extra long handles, extra .....	.20
Fancy finish, bronze, copper, etc., extra .....	.20
“ “ marble, onyx, granite, extra.....	.20

Cutter's Street Hood Socket.

Has the terminals exposed on the porcelain shell so that it is readily wired without pulling the wires through a narrow neck. Saves time and insures high insulation. Shipped complete with iron flange threaded to fit standard streethoods.



No. 20279.

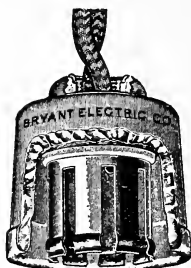
<i>Rotulite</i>	20279 Complete, T. H. Base .....	.25
<i>Rotary</i>	20280 “ Westinghouse Base .....	.25
<i>Rotascope</i>	20281 “ Edison Base .....	.30



No. 20230.

Bryant Porcelain Weatherproof Sockets.

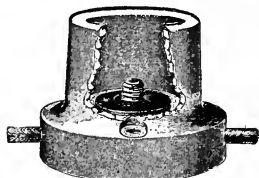
Code Word	List No	List Price Each
<i>Rosediamond</i>	20229 T. H. Base	\$0.20
<i>Rosedrup</i>	20230 Westinghouse Base .....	.20



No. 20232.

<i>Rose-engine</i>	20231 T. H. W. P. Bracket Socket .....	.40
<i>Rosefish</i>	20232 Westinghouse W. P. Bracket Socket .....	.40

Fitted with $\frac{1}{8}$ inch brass socket bushing for bracket work.



No. 20233.

Side Wires.

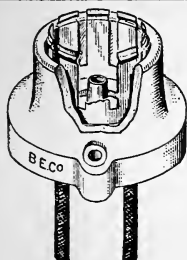
<i>Rosefly</i>	20233 Style A, for T. H. Lamp .....	.30
<i>Rosegull</i>	20234 Style A, for Westinghouse Lamp .....	.30



No. 20235.

Bottom Wires.

<i>Rosehead</i>	20235 For T. H. Lamp.....	.30
<i>Roseknot</i>	20236 For Westinghouse Lamp.....	.30



No. 20238.

Bryant Porcelain Weatherproof Sockets. —(Continued.)

Code Word.	List No.	List Price. Each.
<i>Roselake</i>	20237 T. H. Base	\$0.20
<i>Roselite</i>	20238 Westinghouse Base .....	.20



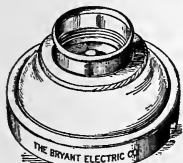
No. 868.

Porcelain Keyless Receptacles.

<i>Excitatum</i>	868 For Thomson-Houston System, each .....	.40
<i>Excitatie</i>	1868 For Westinghouse System .....	.40

For Shade Holder.

Made extra heavy; fastened by turning the top, and so arranged that Shade Holder can be held. These Receptacles are made with fusible cut-outs.



No. 20856.

<i>Saintess</i>	20856 For Thomson Houston system, each .....	.25
<i>Sainthood</i>	20857 For Westinghouse system, each .....	.25

For Cleat Work.

<i>Excite</i>	921 For Thomson-Houston System .....	.15
<i>Excitequent</i>	1921 For Westinghouse System .....	.15



No. 921.

Special Shade Holder Receptacle.

<i>Ece</i>	948 Westinghouse Base .....	.20
<i>Ecen</i>	3948 Thomson-Houston Base .....	.20



No. 948.

Standard Edison Receptacles.



No. 69171.

Code Word.	List No.	List Price. Each.
<i>Rosebush</i>	69171 Edison Keyless Receptacle, Porcelain, with screw connections	\$0.18



No. 69370.

<i>Rosecampion</i>	69370 Edison Keyless Wall Receptacle, T. H. Lamp, Porcelain.....	.20
--------------------	--	-----



No. 2868.

The Wall Receptacle No. 2868 is intended for use with attaching plug and portable lamp. The fuse in the receptacle protects the circuits without requiring a fuse in the attaching plug.

<i>Excitatory</i>	2868 Wall Receptacle, with fuse.....	.40
-------------------	--------------------------------------	-----



No. 2921.

<i>Exciter</i>	2921 Porcelain Receptacle for cleat work18
----------------	--	-----



No. 1948.

<i>Eveline</i>	1948 Porcelain Receptacle for cleat work to take Shade Holder25
----------------	---	-----



No. 929.

<i>Exclaiming</i>	929 K. W. Fusible Receptacle.....	.40
-------------------	-----------------------------------	-----



No. 1949.

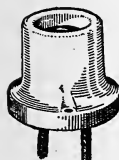
Standard Edison Receptacles—(Continued.)

Code Word.	List No.	List Price. Each.
<i>Evening</i>	1949 K. W. Shade Holder Receptacle	\$0.50



No. 8830.

<i>Courtly</i>	8830 K. W. Shade Holder Angle Receptacle80
----------------	--	-----



No. 20240.

Edison Standard Waterproof Receptacles.

<i>Rosemary</i>	20240 G. E. Waterproof Receptacle40
-----------------	---	-----

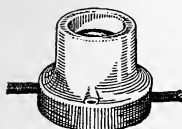
Extra heavy for refrigerators, stock yards, breweries and out of door work.



No. 20241.

<i>Rosen</i>	20241 G. E. Waterproof Receptacle25
--------------	---	-----

This is the same as No. 2021, with the side lugs taken off and bottom wires inserted.



No. 20242.

<i>Rosemble</i>	20242 G. E. Waterproof Receptacle40
-----------------	---	-----

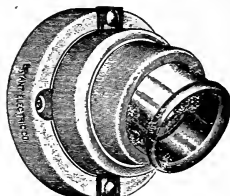
Extra heavy for refrigerators, stock yards, breweries, and out of door work.



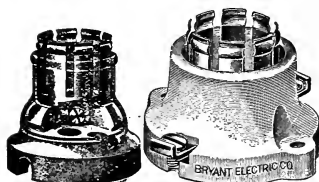
No. 25162.



No. 25168.

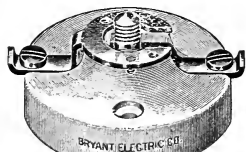


No. 25174.



No. 1922.

No. 25294.



No. 25296.

Bryant K. W. Receptacle.

The K. W. Receptacle is for double fuse, the caps are interchangeable and will fit any K. W. base.

Code Word.	List No.		List Price. Each.
<i>Abducent</i>	25162	Thomson-Houston Base, concealed.....	\$0.28
<i>Abduct</i>	25163	“ “ “ cleat.....	.28
<i>Abduction</i>	25164	“ “ “ moulding.....	.28
<i>Abductor</i>	25165	Westinghouse “ concealed.....	.28
<i>Abenn</i>	25166	“ “ cleat.....	.28
<i>Abenn</i>	25167	“ “ moulding.....	.28

K. W. Shade Holder Receptacle.

<i>Aberrance</i>	25168	Thomson-Houston Base, concealed.....	.32
<i>Abecedarian</i>	25169	“ “ “ cleat.....	.32
<i>Abed</i>	25170	“ “ “ moulding.....	.32
<i>Abele</i>	25171	Westinghouse “ concealed.....	.32
<i>Abeltree</i>	25172	“ “ cleat.....	.32
<i>Abeltian</i>	25173	“ “ moulding.....	.32

K. W. Shade Holder Receptacle—Angle.

<i>Abelite</i>	25174	Thomson-Houston Base, concealed.....	.50
<i>Abelonian</i>	25175	“ “ “ cleat.....	.50
<i>Abelmark</i>	25176	“ “ “ moulding.....	.50
<i>Aberdevine</i>	25177	Westinghouse “ concealed.....	.50
<i>Aberri</i>	25178	“ “ cleat.....	.50
<i>Aberurance</i>	25179	“ “ moulding.....	.50

Bryant Receptacle.

For Concealed and Moulding Work.

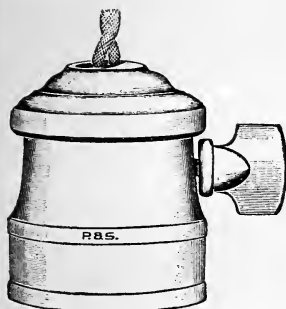
<i>Exciting</i>	922	For Thomson-Houston System.....	.16
<i>Excitingly</i>	1922	For Westinghouse System.....	.16

Pony Receptacle.

<i>Abscondence</i>	25294	Bryant No. 1123 T. H. Base.....	.10
<i>Absonder</i>	25295	Bryant No. 1124 West. Base.....	.10

Bryant Testing Base.

<i>Absent</i>	25296	Bryant No. 1180 T. H. Base.....	.10
<i>Absenteeism</i>	25297	Bryant No. 1181 West Base.....	.10



"P. & S." China Key and Keyless Sockets.

Code Word.	List No.		List Price. Each.
<i>Roselon</i>	20243	Key Socket for Drop Lights, T. H.	\$0.15
<i>Rosepink</i>	20244	" " " " W. H. ....	.15
<i>Rosequartz</i>	20245	Keyless Socket " " T. H. ....	.12
<i>Roser</i>	20246	" " " " W. H. ....	.12
<i>Roseroot</i>	20247	Key Socket for Fixtures T. H. ....	.18
<i>Rosery</i>	20248	" " " " W. H. ....	.18
<i>Roset</i>	20249	Keyless Socket " " T. H. ....	.15
<i>Rosetta</i>	20250	" " " " W. H. ....	.15
<i>Rosewater</i>	20251	Key Wall Socket, T. H. ....	.16
<i>Rosetindoe</i>	20252	" " " " W. H. ....	.16
<i>Rosewood</i>	20253	Keyless Wall Socket, T. H. ....	.13
<i>Rost</i>	20268	" " " " W. H. ....	.13



No. 117.

Exclusively 117 T. H. Porcelain Weatherproof Socket, P. & S. **.18**

The standard length of wire in this Waterproof Socket is 8 inches. We can, however, furnish them to order with wires of any length. Where it is desired to drop lamps a considerable distance from mains, it is an advantage to have wires long, so as to avoid splicing the wire.



No. 108.

"P. & S." China Wall Socket Receptacles.

We make these Receptacles in three different styles as shown. All have backs thus insuring high insulation. We use the same wire connection as is used in our Combination Rosette.



No. 111.

<i>Excludatory</i>	108	With small back for Thomson-Houston Base....	.13
<i>Exclud</i>	109	" " " " Westinghouse Base .....	.13



No. 114.

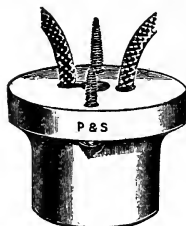
<i>Exclud</i>	111	With large back for Thomson-Houston Base....	.17
<i>Excludative</i>	112	" " " " Westinghouse Base .....	.17
<i>Exclusion</i>	114	With small back and screw for Thomson-Houston Base.....	.17
<i>Excludng</i>	115	With small back and screw for Westinghouse Base .....	.17

Fusible Wall Socket Receptacles.



No. 8835.

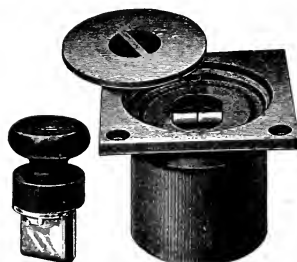
Code Word.	List No.	List Price. Each.
<i>Discredit</i>	8836	Concealed, for Thomson-Houston Base.....
<i>Discredit</i>	8837	" " Westinghouse Base
<i>Discretion</i>	8839	Open, for Thomson-Houston Base
<i>Discriminate</i>	8840	" " Westinghouse Base.....
<i>Discuss</i>	8842	Cleat and Concealed, for Thomson-Houston Base
<i>Donald</i>	8843	" " " Westinghouse Base ...
<i>Doreen</i>	8845	Moulding and Concealed, for Thomson-Houston Base
<i>Dorinder</i>	8846	Moulding and Concealed, for Westinghouse Base.....
<i>Duncan</i>	8848	Full Combination, for Thomson-Houston Base
<i>Dumb</i>	8849	" " " Westinghouse Base.....



No. 20266.

P. & S. Waterproof Receptacle.

<i>Russelly</i>	20266	Waterproof Receptacle, for Thomson-Houston Base.....	.20
<i>Rossignol</i>	20267	Waterproof Receptacle, for Westinghouse Base .....	.20



No. 6001.

No. 6000.

Edison Key and Keyless Lamp Receptacles—

Code Word.	List No.	List Price
<i>Excising</i>	6000	Iron Stage Box and Receptacle, capacity 50 amperes, each.....
<i>Excision</i>	6001	Attaching Plug for No. 6000, each.....

\$ 4.50

1.50



Rie's Regulating Sockets.

For Alternating Current Circuits, light can be regulated from dull red to full candle power, and the consumption of candle power controlled accordingly.

For Thomson-Houston Base Lamps.

Code Word	List No	Volts.	Candle Power	Price Each.
<i>Accolent</i>	25456	50 to 55	16 to 25	\$3.25
<i>Accommodation</i>	25457	50 to 55	32 to 50	4.00
<i>Accommodable</i>	25458	100 to 110	16 to 25	4.00
<i>Accommodableness</i>	25459	100 to 110	32 to 50	5.00

For Sawyer-Mann Base Lamps.

Code Word	List No	Volts	Candle Power	Price Each
<i>Accommodately</i>	25460	50 to 55	16 to 25	\$3.25
<i>Accommodableness</i>	25461	50 to 55	32 to 50	4.00
<i>Accommodating</i>	25462	100 to 110	16 to 25	4.00
<i>Accomplishment</i>	25463	100 to 110	32 to 50	5.00

Brunts' Regulating Socket.

Controls the electric light same as gas. Five degrees of light with a positive saving of current when turned down.

This Regulating Socket is for 16 candle power Incandescent Lights. It is adapted to direct or alternating current; any voltage from 50 to 118. By the simple turning of Key you raise or lower your light from 2 to 16 candle power and consequently save your current when turned down. This Socket is valuable for the Sick Room, Vestibules and Sleeping apartments.

In ordering please state voltage and base (T. H. or Edison.)

Thomson-Houston Base.

Code Word	List No.	Volts	Candle Power	Price Each
<i>Accomplicity</i>	25464	50 to 55	16	\$2.00
<i>Accomplishable</i>	25465	100 to 118	16	2.00

Edison Base.

<i>Accomplisher</i>	25466	50 to 55	16	2.00
<i>Accomplishment</i>	25467	100 to 118	16	2.00



No. 24488.



No. 24489.

Weatherproof Sockets.

Type "D." for Shade-Holder.

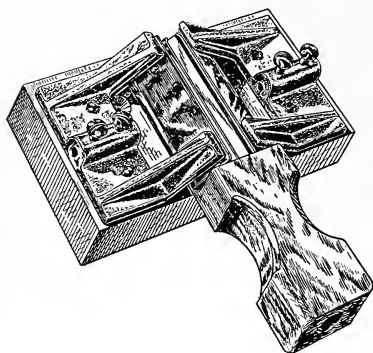
Code Word.	List No.	B. E. No.	List Price, Each.
<i>Villager</i>	24488	1104 Thomson-Houston Base.	\$0.20
<i>Vigorous</i>	24489	1105 Westinghouse	.20

Regular length of wire is 12 inches Special length to special order.

The rim at the bottom of the socket is a new feature designed to hold the shadeholder

No. 2A Brush Swan Socket.

<i>Solfa</i>	24490	1113 Brush-Swan Base, Key....	.30
<i>Solfanara</i>	24491	1114 " " Keyless.....	.24
<i>Acantalepay</i>	25402	1116 " " Key Wall.....	.34
<i>Acater</i>	25403	1117 " " Keyless Wall.....	.32



No. 20862.

Stage Receptacle.

The Jaws and Wire Connectors are made in one piece, of heavy cast brass. The face of the Jaws are pure tempered copper, securely fastened

The handle is made of hard wood, appropriate for the purpose. The portion of the plug which enters the jaws is triangular in section, on two faces of which are secured heavy copper strips. These strips make a contact with the jaws and are also connected with the flexible cable which enters the handle of the plug through the hole in the end.

<i>Saintologist</i>	20862	Complete	3.20
<i>Saintship</i>	20863	Without plug.....	2.50
<i>Sajene</i>	20864	Plug only.....	.70



No. 25404.



No. 24492.

Attachment Plugs.

Enameled Wood Handle not Fusible.

<i>Acites</i>	25404	1163 United States Base.....	.15
<i>Solfatura</i>	24492	1115 Brush-Swan Base.....	.15

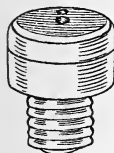
Attachment Plugs.

Not Fusible—Wood Handle. With Metal Base.



No. 867.

Code Word.	List No.	List Price.
<i>Cetacean</i>	867 For Thomson-Houston System, each.....	\$0.25
<i>Cetaceous</i>	1867 " Westinghouse " " .....	.25
<i>Cello</i>	2867 " Edison " " .....	.25



No. 25292



No. 25293

<i>Abgeissu</i>	25292 Attaching Plug for Standard Lamp Socket, Porcelain.....	.30
<i>Abschissu</i>	25293 Attaching Plug for T.-H. Lamp Socket, polished .....	.30

Attachment Plugs.

Fusible—All Parts Brass and Porcelain.

The metal cover can be removed by giving it a quarter turn; the fuse is then easily inserted.



No. 923.

<i>Bawling</i>	923 For Thomson-Houston Socket, each.....	.40
----------------	---	-----



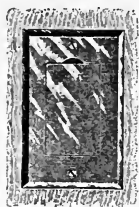
No. 924.

<i>Beach</i>	924 For Westinghouse Sockets, each.....	.40
--------------	---	-----

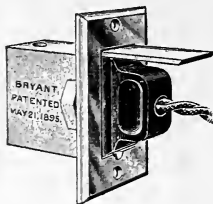


No. 925.

<i>Beacon</i>	925 For Edison Sockets, each.....	.40
---------------	-----------------------------------	-----



Receptacle closed—not
in use.



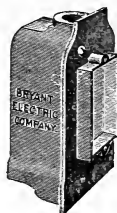
59.
Code Word.
Suitlike
Suitlike
Suitlike
Furn
Furn



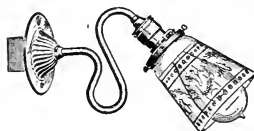
No. 20861.



No. 262.



No. 26002.



No. 26006.



No. 26007.



No. 26008.

The Chapman Receptacle.

Patented May 21, 1895.

The Chapman Receptacle is placed in the wall, base-board or floor. When not in use the lid is closed—the plug being removed—and the face plate is flush, out of the way. All plugs are fused to thirty amperes, and are interchangeable.

Modern methods require a receptacle of this character placed in the base-board at every point where there is a possibility that current may be required for fan motors, desk lights, electrical heating devices or hospital work.

Distance between screw centers of face plate is $3\frac{1}{2}$ inches. Size of face plate is $3\frac{1}{2}$ x $2\frac{1}{4}$ inches.

List No.	B. E. No.	Complete with lid and plug	List Price.
20859	1108	Complete with lid and plug	\$3.00
20860	1109	" " plug, no lid	2.50
20861	1110	Chapman Attaching plug only	1.50
26000	1111	Receptacle only, with lid	1.50
26001	1112	" " no lid	1.00

Prices cover light bronze face plates. Special finishes to order.

Woods Mats for Chapman Receptacles.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concealing the broken edges of the plastering made in cutting away for the receptacle.

<i>Discount</i>	262	1127	Wooden Mats, single switch, each	.30
-----------------	-----	------	----------------------------------	-----

The above price covers the common woods, for rare and expensive woods special prices will be quoted.

Iron Wall Boxes for Chapman Receptacles.

<i>Thimble</i>	26002	1118	1 Outlet at one end only	.80
<i>Rod</i>	26003	1227	2 " " "	.80
<i>Reelless</i>	26004	1228	2 " " " 1 at other end	.80
<i>Reeling</i>	26005	1229	1 " " at each end	.80

These boxes are lined with porcelain enamel and are guaranteed to withstand an alternating current of 2,000 volts. Distance between screw centers is $3\frac{1}{2}$ inches, adapting it for use with the Chapman Receptacle or any Standard Push Button Switch on the market.

The Chapman Bracket Receptacle.

Adapted for use with any Standard $\frac{1}{4}$ inch Bracket made from $\frac{1}{2}$ -inch brass tubing. Regular finish is polished brass. Special finish to special order. Distance between screw centers of face plate is $3\frac{1}{2}$ inches. Diameter of face plate is $\frac{1}{4}$ inches.

<i>Tiger</i>	26006	1128	Bracket Receptacle complete with Plug No. 1129	4.50
<i>Tippler</i>	26007	1183	Bracket Receptacle only	2.50
<i>Tigress</i>	26008	1129	" Plug only	2.00

Chapman Attaching plugs, No. 20861 and 26008 are interchangeable and can be used either with No. 20859 or No. 26007.

<i>Painting</i>	26009	1182	Dummy Plug for No. 26007	1.00
-----------------	-------	------	--------------------------	------

This is merely a wood plug with brass plate, designed to fill the receptacle opening when not in use.

INCANDESCENT SUPPLIES.

MISCELLANEOUS.



No. 3630.



No. 3632.



No. 3634.



No. 3636.



No. 3637.



No. 2927.

Socket Bushings.

Code Word.	List No.	List Price.
<i>Anchored</i>	3630	Genuine Hard Rubber, $\frac{1}{8}$ inch, per 1,000.....\$20.00
<i>Anchored</i>	3631	Composition, $\frac{1}{8}$ inch, per 1,000..... 8.00
<i>Anchorite</i>	3632	Genuine Hard Rubber, $\frac{1}{8}$ inch, per 1,000..... 30.00
<i>Anchoring</i>	3633	Composition, $\frac{1}{8}$ inch, per 1,000..... 9.00
<i>Anchoy</i>	3634	Genuine Hard Rubber, $\frac{1}{8}$ inch, per 1,000.....30.00
<i>Ancient</i>	3635	Composition, $\frac{1}{8}$ inch, per 1,000.....12.00
<i>Anciently</i>	3636	Soft Rubber, per 1,000..... 7.00
<i>Ancipital</i>	3637	Genuine Hard Rubber, $\frac{1}{8}$ inch, per 1,000.....30.00
<i>Cemetery</i>	2927	Polished Brass and Hard Rubber Fixture Bush- ing, each..... .25



No. 3457.

Cord Adjusters.

Code Word.	List No.	List Price.
<i>Bindingly</i>	3457	Ball Cord Adjuster, stained cherry, per 1,000.... \$7.00
<i>Ann</i>	25100	“ “ black enamel..... “ 11.50



No. 3651.

<i>Beambird</i>	3651	Bar Cord Adjuster, wood, per 1,000..... 7.00
<i>Aardark</i>	25101	“ “ hard rubber, per 100..... 7.00



No. 5559.

<i>Idling</i>	5559	“Q and S” Cord Adjuster, each..... .04
---------------	------	--



No. 3561.

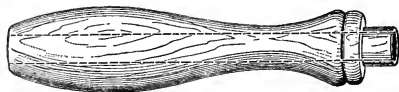
<i>Idiotic</i>	3561	Dumb Bell Cord Adjuster, per 1,000..... 8.00
----------------	------	--



No. 1337.

Socket Handles.

<i>Idler</i>	1337	Two Piece, screw top, per 1,000.... 15.00
--------------	------	---



No. 3556.

<i>Idleness</i>	3556	One Piece, per 1,000..... 12.50
-----------------	------	---------------------------------

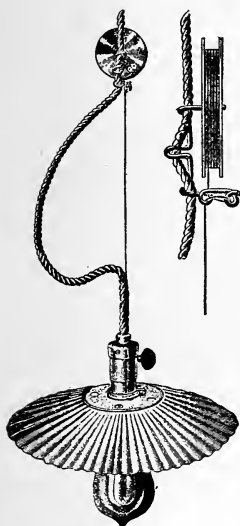


No. 20760.

The Dow Cord Adjuster.

The Dow Adjuster is a thoroughly reliable device for instantly raising or lowering any electric light, and is especially adapted for stores, offices, libraries and hospitals. Can be operated with one hand; is not liable to get out of order, and is much safer than long cords, as the cord when not in use can be rolled up out of the way. In most places the Adjuster can be placed on the cord now in use. It is three inches in diameter and holds twelve feet of cord.

<i>Saddlehorse</i>	20760	Nickel-plated, per doz.....	\$20.00
<i>Saddler</i>	20761	Gilt, "	18.00



No. 20762.

The Disc Cord Adjuster.

It is round, scarce two and a quarter inches in diameter; it is flat, a thickness of but little more than a quarter of an inch. It is in shape like a spool of small height and large diameter; it is hollow, and in its inside is a well tempered spiral spring. A wire twisted into a peculiar shape, fastens this little device to a lamp cord. In the spool-like groove is wound a cord which passes through the loop, extending from the side wire. Fasten it to the lamp cord, pull this cord out the entire length; this winds up the spring, and while the cord is extended fasten it to the lamp cord. You can then raise your lamp to any desired height. It will stay there until you change it.

<i>Saddler</i>	20762	Each50
----------------	-------	------------	-----



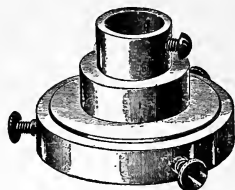
No. 8691.

Perfection Desk or Music Rack Clamp.

Sold complete, including half shade of opal, red, blue, green or yellow glass or of aluminum.

<i>Criusful</i>	8691	Brass, each.....	3.50
<i>Custlery</i>	8692	Nickel, "	4.00

In ordering, state kind of socket required.



No. 3618.

Shade Holder for Cluster Lights.Slips $\frac{1}{8}$ Inch Tube.

Code Word.	List No.		List Price.
<i>Caloric</i>	3618	$2\frac{1}{4}$ Inch, each.....	\$0.30
<i>Calorific</i>	3619	$3\frac{1}{4}$ " " .....	.40

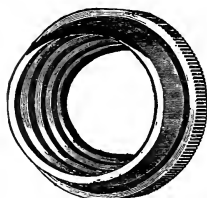


No. 3803.

Acme Shade Holder.

Will Fit Any Socket.

<i>Belong</i>	3803	$2\frac{1}{4}$ Inch, per gross.	10.00
<i>Belonging</i>	3804	$3\frac{1}{4}$ " "	15.00



No. 3198.

Socket Rings.

<i>American</i>	3197	Hard Rubber Ring for Standard Edison Socket, each .....	.15
<i>Amethyst</i>	3198	Porcelain Ring for Standard Edison Socket, each, .....	.10



No. 2694.

<i>Exclamation</i>	2694	Soft Rubber Socket Cover, each.....	.10
--------------------	------	-------------------------------------	-----



No. 8723.

Gas Attachments.

No. 8724.

<i>Censorial</i>	8723	Polished Brass, per 100.....	10.00
<i>Ancient</i>	3635	Composition Fixture Bushing for same, per 1,000,	12.00
<i>Anchoxy</i>	3634	Hard Rubber " " " "	30.00
<i>Censurable</i>	8724	Polished Brass, per 100.....	9.00
<i>Ancient</i>	3635	Composition Fixture Bushing for same, per 1,000,	12.00
<i>Anchoxy</i>	3634	Hard Rubber " " " "	30.00



No. 239.

<i>Census</i>	239	Stamped Brass, not polished, per 100.....	\$ 5.00
<i>Centage</i>	240	" " polished, "	7.00



No. 8677.

<i>Lank</i>	8677	Tapped $\frac{1}{4}$ to $\frac{1}{2}$ inch, per dozen.....	1.00
-------------	------	--	------

Iron Duopod.



No. 8678.

<i>Languishment</i>	8678	Per dozen.....	.75
---------------------	------	----------------	-----

Iron Tripod.



No. 8679.

<i>Langnor</i>	8679	Per dozen.....	.70
----------------	------	----------------	-----

Iron Crowfoot.



No. 8680.



No. 8681.

Iron Chandelier Loops.

<i>Languishing</i>	8680	Closed, per dozen.....	3.00
<i>Lantern</i>	8681	Closed, per dozen.....	3.00



No. 8682.

<i>Lanyard</i>	8682	Open, $\frac{1}{2}$ inch, per dozen	3.00
<i>Lapdog</i>	8683	" $\frac{3}{8}$ " "	3.00
<i>Lapful</i>	8684	" $\frac{1}{2}$ " "	3.00



No. 8983.

Lacquer Radiant.

For Coloring Incandescent Lamps.

The advantages of this material are: Cheapness, richness and permanency of color, and simplicity of application.

16Ounce Bottle.

Code Word.	List No.		List Price
<i>Centennial</i>	8983	Ruby, per bottle.....	\$ 2.00
<i>Centering</i>	8984	Amber, "	2.00
<i>Centesimal</i>	8985	Blue, "	2.00
<i>Centigrade</i>	8986	Green, "	2.00
<i>Centime</i>	8987	Orange, "	2.00
<i>Centipede</i>	8988	Violet, "	2.00

6-Ounce Bottle.

<i>Mantau</i>	14850	Ruby, per bottle.....	.80
<i>Manoka</i>	14851	Amber, " .....	.80
<i>Manteno</i>	14852	Blue, " .....	.80
<i>Manton</i>	14853	Green, " .....	.80
<i>Manville</i>	14854	Orange, " .....	.80
<i>Mapims</i>	14855	Violet, " .....	.80

Full directions with each bottle.



No. 8989.

Frosting Varnish.

For Frosting Incandescent Lamps.

Contains no acid; is perfectly harmless and easily applied.

<i>Centenary</i>	8989	Per 16-oz. bottle.....	2.00
<i>Centallo</i>	14856	Per 6-oz. bottle.....	.80



No. 8990.

Metal Dipping Cup.

For Use with Lacquer Radiant and Frosting Varnish.

<i>Centaur</i>	8990	Each.....	.40
----------------	------	-----------	-----



Registered July 31, 1894.



No. 1001.

The Macallen Solid Mica Insulating Joint.

These Joints have been approved and recommended by the Boards of Fire Underwriters throughout the country, and are recognized by the trade as the standard insulating joint.

All our joints are tested electrically to 2500 volts, and all our combination joints are tested under high atmospheric pressure, and we guarantee them not to leak gas.

IN COMPOSITION BRASS.

Combination.

<i>Cormorant</i>	1001	$\frac{3}{4} \times \frac{1}{2}$, each	\$0.50
<i>Corn</i>	1002	$\frac{3}{4} \times \frac{1}{2}$, "	.50
<i>Cornea</i>	1003	$\frac{3}{4} \times \frac{1}{2}$, "	.50
<i>Corned</i>	1004	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Cornelia</i>	1005	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Cornelius</i>	1006	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Cornet</i>	1007	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Cornet</i>	1008	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Cornetcy</i>	1009	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Cornish</i>	1010	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Cornucopia</i>	1011	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Corollary</i>	1012	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Corona</i>	1013	1 x $\frac{1}{2}$, "	1.60
<i>Coronal</i>	1014	1 x $\frac{1}{2}$, "	1.60
<i>Coronary</i>	1015	1 x 1, "	1.60
<i>Coroner</i>	1016	1 $\frac{1}{2}$ x 1, "	2.20
<i>Corporal</i>	1017	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$, "	2.20
<i>Corporally</i>	1018	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$, "	4.00
<i>Corporate</i>	1019	2 x 2, "	6.00

Larger sizes made to order, special prices.

Blank.

<i>Corporation</i>	1021	$\frac{3}{4} \times \frac{1}{2}$, each	.50
<i>Corpulence</i>	1022	$\frac{3}{4} \times \frac{1}{2}$, "	.50
<i>Corpulent</i>	1023	$\frac{3}{4} \times \frac{1}{2}$, "	.50
<i>Corrective</i>	1024	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Conducting</i>	1025	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Conduction</i>	1026	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Conductor</i>	1027	$\frac{3}{4} \times \frac{1}{2}$, "	.66%
<i>Cone</i>	1028	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Confab</i>	1029	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Confederacy</i>	1030	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Confederate</i>	1031	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Confederating</i>	1032	$\frac{3}{4} \times \frac{1}{2}$, "	1.00
<i>Confederation</i>	1033	1 x $\frac{1}{2}$, "	1.60
<i>Confer</i>	1034	1 x $\frac{1}{2}$, "	1.60
<i>Conference</i>	1035	1 x 1, "	1.60
<i>Confess</i>	1036	1 $\frac{1}{2}$ x 1, "	2.20
<i>Confessedly</i>	1037	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$, "	2.20
<i>Confessing</i>	1038	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$, "	4.00
<i>Confessor</i>	1039	2 x 2, "	6.00

Larger sizes made to order, special prices.

The Macallen Solid Mica Insulating Joint.

IN MALLEABLE IRON.

Code Word.	List No.	Combination.	List Price.
<i>Confineless</i>	1041	$\frac{3}{8}$ x $\frac{1}{2}$, each.....	\$0.45
<i>Confinement</i>	1042	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.45
<i>Confiner</i>	1043	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.45
<i>Confirm</i>	1044	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.60
<i>Confirmable</i>	1045	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.60
<i>Confiscate</i>	1046	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.60
<i>Confiscating</i>	1047	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.60
<i>Confidant</i>	1048	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.90
<i>Confide</i>	1049	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.90
<i>Confidence</i>	1050	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.90
<i>Confidently</i>	1051	1 x $\frac{1}{2}$, ".....	1.45
<i>Confiding</i>	1052	1 x $\frac{1}{2}$, ".....	1.45
<i>Confine</i>	1053	1 x 1, ".....	1.45

Blank.

<i>Conform</i>	1061	$\frac{3}{8}$ x $\frac{1}{2}$, each.....	.45
<i>Conformable</i>	1062	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.45
<i>Conformation</i>	1063	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.45
<i>Conformed</i>	1064	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.60
<i>Conforming</i>	1065	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.60
<i>Conformist</i>	1066	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.60
<i>Conformity</i>	1067	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.60
<i>Confascator</i>	1068	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.90
<i>Confagration</i>	1069	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.90
<i>Confict</i>	1070	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.90
<i>Conficting</i>	1071	1 x $\frac{1}{2}$, ".....	1.45
<i>Confuence</i>	1072	1 x $\frac{1}{2}$, ".....	1.45
<i>Confluent</i>	1073	1 x 1, ".....	1.45

Electrolter or Separable Joint.

IN MALLEABLE IRON.

<i>Confound</i>	1101	$\frac{3}{8}$ x $\frac{1}{2}$, each.....	.50
<i>Confounded</i>	1102	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.50
<i>Confounding</i>	1103	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.50
<i>Confront</i>	1104	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.66%
<i>Confrontant</i>	1105	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.66%
<i>Confrontation</i>	1106	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.66%
<i>Confronted</i>	1107	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.66%
<i>Confronting</i>	1110	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	1.00
<i>Confrontment</i>	1111	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	1.00

IN COMPOSITION BRASS.

<i>Confuse</i>	1081	$\frac{3}{8}$ x $\frac{1}{2}$, each.....	.60
<i>Confused</i>	1082	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.60
<i>Confusedly</i>	1083	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.60
<i>Confusedness</i>	1084	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.80
<i>Confusing</i>	1085	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.80
<i>Confusion</i>	1086	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	.80
<i>Confutable</i>	1087	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	.80
<i>Confutation</i>	1090	$\frac{3}{8}$ x $\frac{1}{2}$, ".....	1.20
<i>Confute</i>	1091	$\frac{3}{8}$ x $\frac{3}{8}$, ".....	1.20



No. 1101.



No. 1141.

The Macallen Solid Mica Bracket Joint.

IN MALLEABLE IRON

Code Word.	List No.	Combination.	List Price.
<i>Confuted</i>	1141	$\frac{3}{8} \times \frac{1}{2}$, each	\$0.36
<i>Confuting</i>	1142	$\frac{3}{8} \times \frac{1}{2}$, "	.36
<i>Congest</i>	1143	$\frac{3}{8} \times \frac{1}{2}$, "	.36
<i>Congestling</i>	1144	$\frac{1}{2} \times \frac{1}{2}$, "	.50
<i>Congelation</i>	1145	$\frac{1}{2} \times \frac{1}{2}$, "	.50
<i>Engager</i>	1146	$\frac{1}{2} \times \frac{1}{2}$, "	.50

Blank.

<i>Congeneric</i>	1151	$\frac{3}{8} \times \frac{1}{2}$, each	.36
<i>Congenial</i>	1152	$\frac{3}{8} \times \frac{1}{2}$, "	.36
<i>Congenital</i>	1153	$\frac{3}{8} \times \frac{1}{2}$, "	.36
<i>Congest</i>	1154	$\frac{1}{2} \times \frac{1}{2}$, "	.50
<i>Congestible</i>	1155	$\frac{1}{2} \times \frac{1}{2}$, "	.50
<i>Congestion</i>	1156	$\frac{1}{2} \times \frac{1}{2}$, "	.50

IN COMPOSITION BRASS.

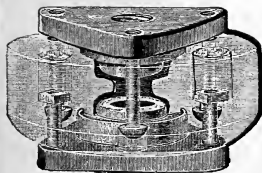
Combination.

<i>Congression</i>	1121	$\frac{3}{8} \times \frac{1}{2}$, each	.40
<i>Congruent</i>	1122	$\frac{3}{8} \times \frac{1}{2}$, "	.40
<i>Conically</i>	1123	$\frac{3}{8} \times \frac{1}{2}$, "	.40
<i>Conifer</i>	1124	$\frac{1}{2} \times \frac{1}{2}$, "	.54
<i>Coniform</i>	1125	$\frac{1}{2} \times \frac{1}{2}$, "	.54
<i>Conjecture</i>	1126	$\frac{1}{2} \times \frac{1}{2}$, "	.54

Blank.

<i>Conjoin</i>	1131	$\frac{3}{8} \times \frac{1}{2}$, each	.40
<i>Conjoint</i>	1132	$\frac{3}{8} \times \frac{1}{2}$, "	.40
<i>Conjointly</i>	1133	$\frac{3}{8} \times \frac{1}{2}$, "	.40
<i>Conjointness</i>	1134	$\frac{1}{2} \times \frac{1}{2}$, "	.54
<i>Conjugal</i>	1135	$\frac{1}{2} \times \frac{1}{2}$, "	.54
<i>Conjugate</i>	1136	$\frac{1}{2} \times \frac{1}{2}$, "	.54

"P. & S." China Insulating Joint.



No. 8790.

<i>Cenobite</i>	8790	$\frac{1}{2} \times \frac{1}{2}$ in., $2\frac{1}{2}$ in. diameter, each	.27
<i>Cenobitic</i>	8791	$\frac{1}{2} \times \frac{1}{2}$ " $\frac{1}{2}$ " next to wall, $2\frac{1}{2}$ in. diameter, each,	.27
<i>Cenotaph</i>	8792	$\frac{1}{2} \times \frac{1}{2}$ " $\frac{3}{8}$ " " $2\frac{1}{2}$ " " "	.27
<i>Censor</i>	8793	$\frac{1}{2} \times \frac{1}{2}$ " $2\frac{1}{2}$ " diameter, each	.27
<i>Casket</i>	8794	$\frac{1}{2} \times \frac{1}{2}$ " $\frac{1}{2}$ " next to wall, $2\frac{1}{2}$ in. diameter, each,	.33
<i>Caspian</i>	8795	$\frac{3}{8} \times \frac{1}{2}$ " " " $2\frac{1}{2}$ " " "	.33
<i>Cassock</i>	8796	$\frac{3}{8} \times \frac{1}{2}$ " " " $2\frac{1}{2}$ " " "	.33
<i>Castinet</i>	8797	$\frac{3}{8} \times \frac{1}{2}$ " $2\frac{1}{2}$ " diameter, each	.33
<i>Castaway</i>	8798	$\frac{3}{8} \times \frac{1}{2}$ " $\frac{3}{8}$ " next to wall, 3 in. diameter, each,	.38
<i>Caste</i>	8799	$\frac{1}{2} \times \frac{1}{2}$ " $\frac{1}{2}$ " " 3 " " "	.38
<i>Castellan</i>	8800	$\frac{1}{2} \times \frac{1}{2}$ " 3 " diameter, each	.38



Tested Fuse Wire and Ribbon.

Fuse Wire.

Code Word.	List No.	Dia. Mils.	Carry. Cap. Amp.	Std. Lgth. inches	Ft. lb.	Price per lb.
<i>Abaisance</i>	25113	10	$\frac{1}{2}$	1 $\frac{1}{2}$	2700	Special
<i>Roundsoulder</i>	20352	17	$\frac{1}{2}$	1 $\frac{1}{2}$	950	\$2.75
<i>Roundtrade</i>	20354	20	1	1 $\frac{1}{2}$	670	1.10
<i>Roundtruy</i>	20355	23	1 $\frac{1}{2}$	1 $\frac{1}{2}$	510	1.05
<i>Roup</i>	20356	25	2	1 $\frac{1}{2}$	430	1.05
<i>Rousant</i>	20357	27	3	1 $\frac{1}{2}$	370	1.00
<i>Rouse</i>	20358	30	4	1 $\frac{1}{2}$	300	1.00
<i>Rouser</i>	20359	35	5	2	220	1.00
<i>Rousing</i>	20360	38	6	2	185	.85
<i>Rousingly</i>	20361	44	7	2	140	.85
<i>Roust</i>	20362	47	8	2	120	.80
<i>Rout</i>	20363	54	9	2	93	.80
<i>Route</i>	20364	58	10	2	80	.80
<i>Routine</i>	20365	62	12	3	70	.80
<i>Routously</i>	20366	68	14	3	60	.80
<i>Roce</i>	20367	70	15	3	52	.75
<i>Rocer</i>	20368	73	16	3	49	.75
<i>Rocing</i>	20369	78	18	3	43	.75
<i>Rocingly</i>	20370	86	20	4	36	.75
<i>Rocingness</i>	20372	90	25	4	32	.75
<i>Rocingshot</i>	20373	100	30	4	26	.75
<i>Rocer</i>	20374	110	36	4	22	.75
<i>Rounble</i>	20375	122	40	4	18	.75
<i>Rountreer</i>	20376	126	45	4	17	.75
<i>Roubout</i>	20377	147	50	5	12.5	.75
<i>Roudyish</i>	20379	160	60	5	10.3	.70
<i>Rouel</i>	20380	172	70	5	9.0	.70
<i>Rouen</i>	20381	178	75	5	8.3	.70
<i>Rouer</i>	20382	190	80	5	7.5	.70
<i>Rouett</i>	20383	198	90	5	6.7	.70
<i>Roulegraggy</i>	20384	220	100	5	5.5	.70

$\frac{1}{2}$ to 35 Amp. inclusive, on 1 lb. spools. 40 to 100 Amp. inclusive, on 2 lb. spools.

Tested Fuse Ribbon.

	Carrying Capacity Amperes.	Length in ins.	Size in inches.	Feet per lb.	Price per lb.
<i>Rouclork</i>	20385	50	$\frac{1}{2}$.36 x .047	12.5	\$0.65
<i>Abuiser</i>	25114	60	$\frac{1}{2}$.44 x .042	11.3	.65
<i>Rouport</i>	20386	75	$\frac{1}{2}$.50 x .043	9.7	.65
<i>Abutienote</i>	25115	90	$\frac{1}{2}$.66 x .045	7.0	.65
<i>Roya</i>	20388	100	$\frac{1}{2}$.38 x .078	7.0	.65
<i>Abutirantinn</i>	25116	115	$\frac{1}{2}$.44 x .092	5.2	.60
<i>Royalet</i>	20389	125	$\frac{1}{2}$.50 x .095	4.5	.60
<i>Royalism</i>	20390	150	$\frac{1}{2}$.53 x .092	4.3	.60
<i>Royalist</i>	20391	175	$\frac{1}{2}$.66 x .095	3.3	.60
<i>Aband</i>	25117	190	$\frac{1}{2}$.75 x .094	3.0	.60
<i>Royalize</i>	20392	200	$\frac{1}{2}$.87 x .093	2.6	.60
<i>Abandoned</i>	25118	225	$\frac{1}{2}$ 1.0 x .095	2.2	.60
<i>Royalty</i>	20393	250	$\frac{1}{2}$ 1.0 x .113	1.8	.60
<i>Royalty</i>	20394	300	$\frac{1}{2}$ 1.0 x .15	1.4	.60
<i>Abandoner</i>	25119	400	$\frac{1}{2}$ 1.0 x .19	1.1	.60
<i>Royne</i>	20395	500	$\frac{1}{2}$ 1.25 x .20	.85	.60
<i>Abandonment</i>	25120	600	$\frac{1}{2}$ 1.5 x .18	.75	.60

Furnished in coils of any length.

Shawmut Tested Fuse Links.



No. 1.

For Rosettes.

No. 1 B Terminal. 1, 2, 3, 5 Ampere. Slots $\frac{1}{8}$ inch, $1\frac{1}{2}$ inch centers. \$21.50

For S. M. or Edison Main or Branch Blocks.

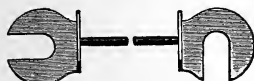
No. 2½ B Terminal. 5, 8, 10, 12, 15, 20, 25, 30 Ampere. Slots $\frac{1}{8}$ inch, $1\frac{1}{2}$ inch centers. 33.50



No. 2½ B.

For Edison Main or Branch Blocks.

No. 3 A Terminal. 35, 40, 45, 50, 60, 75, 90, 100 Ampere. Slots inch, $1\frac{1}{2}$ inch centers. 35.00



No. 3 A.

For S. M. Blocks and Fused Switches.

Same Terminal as above, 25, 30, 35, 40, 50 Amperes, 2½ inch centers. 50.00

For S. M. Blocks and Fused Switches.

No. 4 A Terminal. 60, 75, 90 Amperes Slots $\frac{1}{8}$ inch, 2½ inch centers 55.00



No. 4 A.

For Fuse Blocks and Switch Boards.

	List Price. per 100.
No. 5 A Terminal, Slots $\frac{1}{8}$ inch, 2½ inch centers, 100, 125, 150, 175, 200 amperes.....	\$112.50
No. 6 A Terminal, Slots $\frac{1}{8}$ inch, 2½ inch centers, 200, 225, 250, 275 amperes	135.00
300, 350, 400 amperes.....	165.00
500, 600 amperes.....	200.00
700, 800 amperes.....	250.00

Prices are based upon the TERMINAL used, and not upon the carrying capacity. An additional charge will be made for links over 4 inches between centers, based upon the extra metal used and the difficulty in manufacture.

In ordering, find the exact cut of the Fuse Link required, and then specify

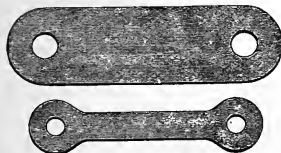
FIRST. Safe carrying capacity.

SECOND. Terminal number, e. g., 1 B, 2½ B, etc.

THIRD. Distance between centers of binding posts.

NOTE.—The fusing point of Shawmut Fuse Links is about 30 per cent. above safe carrying capacity.

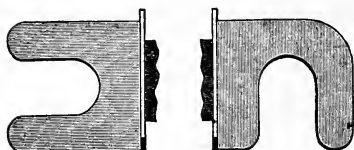
Sawyer-Plan Flat Lead Links.



	Dist. between Center.	Amperes.	
<i>Roykish</i> 20396	1½ inch.	10-25	25.00
<i>Roysterer</i> 20397	2½ "	25-40	40.00
<i>Roysterer</i> 20398	2½ "	40-50	45.00
<i>Roytlet</i> 20399	2½ "	50-60	50.00
<i>Roytish</i> 20400	2½ "	60-80	60.00
<i>Rut</i> 20401	2½ "	80-125	100.00
<i>Rubidob</i> 20402	2½ "	125-175	120.00
<i>Rubato</i> 20403	2½ "	175-225	150.00



No. 5 A.



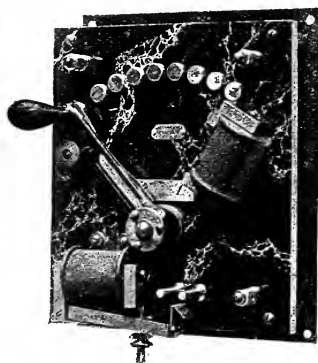
No. 6 A.

Shawmut Copper Terminals.

Code Word.	List No.	Number.	Maximum Capacity in Amperes	List Price per 1000.
<i>Rubbing</i>	20404	1'	10	9.20
<i>Rubber</i>	20405	2	20	9.40
<i>Rubridge</i>	20405½	2½ B	30	9.40
<i>Rubblish</i>	20407	3	60	12.00
<i>Rubblishly</i>	20408	4	100	19.00
<i>Rubble</i>	20409	4½ B	100	19.20
<i>Rubblestone</i>	20410	5	200	30.00
<i>Rubblecut</i>	20411	5½ or 6	300	58.00
<i>Rubblework</i>	20412	5½ or 6 thick	600	64.00
<i>Rubblly</i>	20413	8	1000	120.00
<i>Rubedinous</i>	20414	10 C	1500	160.00
<i>Rubefurient</i>	20415	T. H. Ry	150	20.00

Shawmut Specially Designed Fuses.

T. H. RAILWAY LINKS.			GENERATOR FUSES.			ED. UNDERGROUND FUSES.		
Amp.	Type.	Price per 1000.	Amp.	Terminal	Price per 100.	Amp.	Terminal	Price per 100.
35	Round	\$40.00	500	No. 8 A.	\$30.00	600	No. 5½ A.	\$25.00
50	"	45.00	600	"	30.00	700	"	25.00
75	"	50.00	700	"	35.00	800	"	25.00
80	"	50.00	800	"	35.00	900	"	25.00
100	"	50.00	900	"	40.00	1000	"	25.00
150	Flat	50.00	1000	"	40.00	300	No. 10 C.	30.00
200	"	60.00				400	"	30.00
		75.00				500	"	35.00
GENERATOR FUSES.			ED. UNDERGROUND FUSES.					
Amp.	Terminal	Price per 100.	Amp.	Terminal	Price per 100.			
100	No. 8 A.	\$25.00	100	No. 5½ A.	\$15.00			
150	"	25.00	150	"	15.00			
200	"	25.00	200	"	18.00			
250	"	25.00	250	"	18.00			
300	"	25.00	300	"	20.00			
350	"	25.00	400	"	20.00			
400	"	25.00	500	"	20.00			



20 Ampere Type.

3 B. Terminal, 500 Volt Fuses, 5 inch Centers, 5 to 40 amp. capacity,	Per 100
5 A " 500 " 5 " " 20 to 60 "	\$10.00
	15.00

Cutler-Hammer Rheostats.

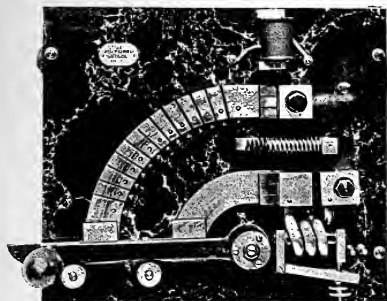
MOTOR STARTING BOXES.

With Automatic Release and Circuit Breaker.

This device is a combined Starting Box and Circuit Breaker.

Should the motor become overloaded the lever immediately flies back, inserting the resistance of the Rheostat and then opening the circuit WITHOUT SPARK. No carbons for the final break are therefore necessary.

The combined device not only protects the motor from Short Circuit, Ground and Overload, but also protects the motor from interrupted current and open field circuit.



Motor Starting Box with Automatic Release.



Motor Starting Box with Magnetic Release.



Motor Starting Box with Magnetic Release.

Cutler-Hammer Rheostats.—Continued.

Motor Starting Boxes.—Continued. With Automatic Release and Circuit Breaker.

Horse Power.	125 Volts.	240 Volts.	500 Volts.
$\frac{1}{4}$ to 3	\$ 25.00	\$ 25.00	\$ 25.00
5	37.00	37.00	37.00
7½	55.00	42.00	42.00
10	58.00	45.00	45.00
15	65.00	60.00	52.00
20	70.00	65.00	58.00
25	85.00	70.00	63.00
30	95.00	85.00	75.00
35	105.00	90.00	80.00
40	115.00	100.00	100.00
50	140.00	115.00	115.00
75	220.00	185.00	175.00
100	280.00	250.00	225.00
150	375.00	385.00	300.00
200	480.00	440.00	380.00

Motor Starting Boxes.

With Magnetic Release.

Absolutely fire proof; built entirely of marblized slate, metal and asbestos.

Impossible to leave the resistance in circuit and burn out the box.

Prevents injury to motor when supply of current is cut off and then suddenly turned on again.

Prevents injury to armature and commutator due to an open field circuit.

Simple durable and reliable. Only one moving part. Endorsed by the Board of Fire Underwriters.

When ordering give horse power, voltage and make of motor.

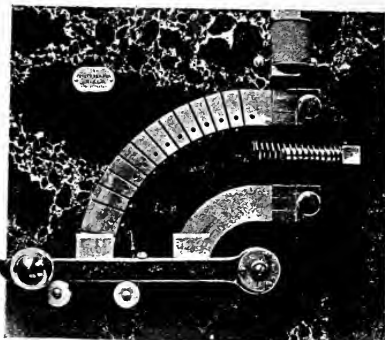
Horse Power.	125 Volts.	240 Volts.	500 Volts.
$\frac{1}{4}$ to 3	\$ 15.00	\$ 15.00	\$ 15.00
5	25.00	25.00	25.00
7½	40.00	30.00	30.00
10	43.00	33.00	33.00
15	50.00	45.00	40.00
20	55.00	50.00	45.00
25	65.00	55.00	50.00
30	73.00	65.00	60.00
35	80.00	70.00	70.00
40	90.00	80.00	80.00
50	115.00	100.00	100.00
75	190.00	165.00	150.00
100	250.00	225.00	200.00
150	325.00	300.00	275.00
200	420.00	400.00	350.00

SPECIAL RHEOSTATS.

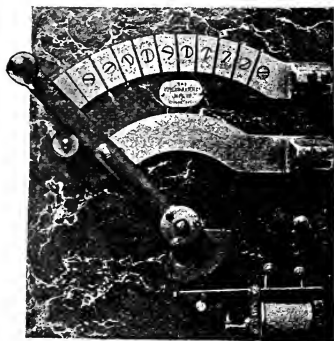
In ordering Special Rheostats the following information is necessary.

- 1st. The purpose for which the Rheostat is to be used.
- 2nd. The maximum current to be carried.
- 3rd. The maximum time the current will be flowing through the resistance of the Rheostat.
- 4th. The minimum current to be used.
- 5th. The total resistance to be required.
- 6th. The voltage of the current.
- 7th. The horse power or K.W. of the motor or dynamo used.
- 8th. The number of steps or divisions necessary on the front of Rheostat.

When provided with the exact knowledge of just what the Rheostat is expected to do, many of the above points can be determined. By giving explicit and full information prompt results can be obtained.



Motor Starting Box, with Automatic Release.
300 Ampere Front.



Combined Motor Starting Box and
Speed Regulator.

Cutler-Hammer Rheostats.—*Continued.*

COMBINED MOTOR STARTING BOX AND SPEED REGULATOR.

Automatic Release from Every Point.

Our Motor Speed Regulators, with Automatic Release, combine in one device all the advantages and protections afforded by our Automatic Release Motor Starters, in addition to the great convenience of a Speed Regulator.

The Automatic Release acts from every contact point, firmly locking the arm in position at any desired speed, and upon failure of the current, or the opening of the field circuit, automatically releases the arm, permitting it to return to the full off position.

In ordering give Horse-power, Voltage, Normal Speed, and make of Motor. Also, lowest speed desired and kind of machinery attached to the motor. Prices are based on 50 per cent. reduction of speed at full load

H. P.	120 VOLTS.		220 VOLTS.		500 VOLTS.	
	With Autom'tic Release.	Without Autom'tic Release.	With Autom'tic Release.	Without Autom'tic Release.	With Autom'tic Release.	Without Autom'tic Release.
1/4	\$ 22.00	\$ 15.00	\$ 22.00	\$ 15.00	\$ 22.00	\$ 15.00
1/2	28.00	18.00	28.00	18.00	28.00	18.00
1	35.00	22.00	35.00	22.00	35.00	22.00
2	42.00	30.00	42.00	30.00	42.00	30.00
3	52.00	40.00	52.00	40.00	52.00	40.00
5	67.00	55.00	67.00	55.00	67.00	55.00
7 1/2	85.00	70.00	85.00	70.00	85.00	70.00
10	100.00	85.00	100.00	85.00	100.00	85.00
15	125.00	110.00	120.00	105.00	120.00	105.00
20	155.00	135.00	145.00	125.00	145.00	125.00
25	185.00	160.00	175.00	150.00	175.00	150.00
30	215.00	185.00	205.00	180.00	200.00	175.00
35	250.00	210.00	240.00	205.00	235.00	200.00
40	285.00	245.00	285.00	235.00	275.00	225.00
50	360.00	300.00	340.00	290.00	325.00	275.00
75	500.00	435.00	450.00	400.00	425.00	375.00

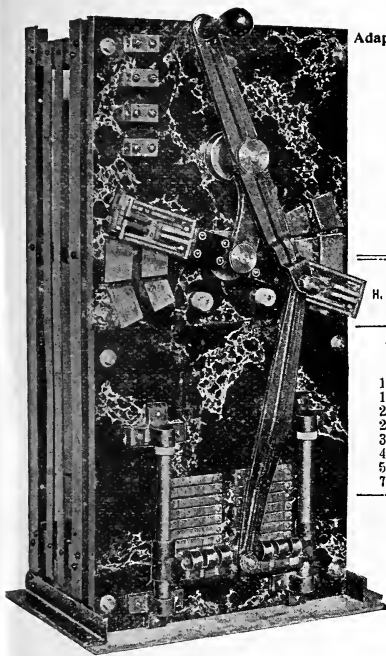
Reversible Controllers.

For either Series or Shunt Wound Motors.

Adapted for Traveling Cranes, Locomotive Turn Tables, Conveyors,
Swinging Bridges, Rolling Mills, Hoists,
Unloading Vessels,

and all kinds of Electric work where the Motor is started and
stopped, and its direction of rotation is changed a great many
times a day

Renewable Carbon Brushes and Segments, Non-Sparkling,
Compact and Indestructible.



H. P.	VOLTS.			DIMENSIONS OVER ALL IN INCHES.			Weight. Lbs.
	110	220	500	Height.	Width.	Depth.	
3	\$120.00	\$120.00	\$120.00	30	16	14	150
5	150.00	150.00	150.00	30	16	16	175
7½	180.00	180.00	180.00	30	16	18	200
10	200.00	200.00	200.00	36	18	18	250
15	220.00	220.00	220.00	36	18	18	275
20	240.00	230.00	230.00	40	18	18	300
25	250.00	240.00	240.00	40	18	18	300
30	260.00	250.00	250.00	40	20	18	350
40	280.00	260.00	260.00	40	20	18	350
50	300.00	275.00	275.00	40	20	18	350
75.	360.00	300.00	300.00	40	22	22	400

Depth includes projection of handle.

These Controllers are designed to start and stop a Motor a
great many times a day, and to regulate the speed of the
motor during a time not to exceed a minute or two. They
are not designed to regulate the speed of a Motor which
runs continuously for hours, but will not burn out even if
abused to this extent.

In ordering always state whether a Controller
is desired for a Shunt or Series wound Motor.

Carpenter Enamel Rheostats.

Type "R"



No. 20416.

Small Motor Regulating Rheostats, 1-16 to 1-6 H. P.

Code Word.	List No.	Size of Motor in H. P.	Volts.	Capacity in Amp. Continuously.	List Price Each.
<i>Aaronic</i>	25102	$\frac{1}{4}$	125	7	\$4.50
<i>Rubelite</i>	20416	$\frac{1}{4}$	125	1.	3.70
<i>Rubeola</i>	20417	$\frac{1}{4}$	125	1.5	3.70
<i>Rubescence</i>	20418	$\frac{1}{4}$	125	2.	3.70
<i>Rubescence</i>	20419	$\frac{1}{4}$	250	.5	4.50
<i>Rubican</i>	20420	$\frac{1}{4}$	250	.75	4.50

Motor Regulating Rheostats.

These Rheostats are intended for regulating the speed of motors down to one-half of the full speed under full torque, and will stand the "maximum amperes" continuously with the full switch lever on any contact.



No. 20421.

Code Word.	List No.	H. P. of Motor	Volts.	Maximum Amperes.	
<i>Rubicelle</i>	20421	$\frac{1}{4}$	125	2.5	8.50
<i>Rubicaund</i>	20422	$\frac{1}{4}$	125	4	13.00
<i>Rubidium</i>	20423	1	125	8	17.00
<i>Rubific</i>	20424	2	125	16	23.00
<i>Rubiforme</i>	20425	3	125	24	23.00
<i>Rubify</i>	20426	5	125	40	35.00
<i>Rubiginous</i>	20427	7 $\frac{1}{2}$	125	60	55.00
<i>Rubigo</i>	20428	10	125	80	55.00
<i>Rubine</i>	20429	15	125	120	78.00
<i>Rubrous</i>	20430	20	125	150	98.00
<i>Rubric</i>	20431	25	125	190	175.00
<i>Rubrical</i>	20432	30	125	230	220.00
<i>Aaronical</i>	25103	40	125	288	260.00
<i>Aaron's rod</i>	25104	50	125	360	350.00
<i>Rubricote</i>	20433	$\frac{1}{4}$	250	2	8.50
<i>Rubrican</i>	20434	$\frac{1}{4}$	250	1.2	14.00
<i>Rubricist</i>	20435	1	250	4	17.00
<i>Rubstone</i>	20436	2	250	8	22.00
<i>Rubus</i>	20437	3	250	12	23.00
<i>Ruby</i>	20438	5	250	20	35.00
<i>Rubytail</i>	20439	7 $\frac{1}{2}$	250	30	55.00
<i>Rubywood</i>	20440	10	250	40	55.00
<i>Ruche</i>	20441	15	250	60	75.00
<i>Ruck</i>	20442	20	250	75	95.00
<i>Ructation</i>	20443	25	250	95	118.00
<i>Rud</i>	20444	30	250	115	138.00
<i>Ab</i>	25105	40	250	144	235.00
<i>Abaca</i>	25106	50	250	180	275.00
<i>Abneiscus</i>	25107	75	250	270	400.00
<i>Abneist</i>	25108	100	250	360	550.00
<i>Rudder</i>	20445	$\frac{1}{4}$	500	1	11.00
<i>Ruddercoat</i>	20446	$\frac{1}{4}$	500	1	14.00
<i>Rudderhood</i>	20447	1	500	2	23.00
<i>Ruddernote</i>	20448	2	500	4	39.00
<i>Rudders</i>	20449	3	500	6	40.00
<i>Ruddernail</i>	20450	5	500	10	55.00
<i>Rudderprints</i>	20451	7 $\frac{1}{2}$	500	15	60.00
<i>Rudderstock</i>	20452	10	500	20	60.00
<i>Ruddied</i>	20453	15	500	30	100.00
<i>Ruddle</i>	20454	20	500	38	120.00
<i>Ruddlemann</i>	20455	25	500	48	140.00
<i>Ruddock</i>	20456	30	500	58	160.00
<i>Abacot</i>	25109	40	500	72	200.00
<i>Abactor</i>	25110	50	500	90	270.00
<i>Abeculus</i>	25111	75	500	135	370.00
<i>Abaddon</i>	25112	100	500	180	500.00

Carpenter Enamel Rheostats.—(Continued.)

Motor Starting Rheostats.

With "No Voltage" Automatic Release. Protecting Motor in case of Failure of Current from any cause.

"IA" Type.



No. 25120.

Code Word	List No.	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price, Each.
<i>Abernancy</i>	25180	$\frac{1}{2}$	125	2.5	\$14.50
<i>Ruddy</i>	20457	$\frac{1}{2}$	125	4.	14.50
<i>Rude</i>	20458	1	125	8.	14.50
<i>Rudely</i>	20459	2	125	16.	16.00
<i>Rudeness</i>	20460	3	125	24.	19.00
<i>Rudenture</i>	20461	5	125	40.	23.00
<i>Rudernary</i>	20462	$7\frac{1}{2}$	125	60.	28.00
<i>Rudernation</i>	20463	10	125	80.	33.00
<i>Abberate</i>	25181	15	125	120.	46.00
<i>Abberation</i>	25182	20	125	150.	46.00
<i>Aberunante</i>	25183	25	125	190.	59.00
<i>Aberunctor</i>	25184	30	125	230.	79.00
<i>Abetment</i>	25185	40	125	288.	82.00
<i>Abettol</i>	25186	50	125	360.	92.00
<i>Abettor</i>	25187	$\frac{1}{2}$	250	1.2	14.50
<i>Rudesby</i>	20464	$\frac{1}{2}$	250	2.	14.50
<i>Rudiment</i>	20465	1	250	4.	14.50
<i>Rudish</i>	20466	2	250	8.	16.00
<i>Rudity</i>	20467	3	250	12.	19.00
<i>Rudelphine</i>	20468	5	250	20.	23.00
<i>Rue</i>	20469	$7\frac{1}{2}$	250	30.	28.00
<i>Rueful</i>	20470	10	250	40.	32.00
<i>Ruefully</i>	20471	15	250	60.	38.00
<i>Ruefuly</i>	20472	20	250	75.	41.00
<i>Abecroevation</i>	25188	25	250	95.	46.00
<i>Abeance</i>	25189	30	250	115.	66.00
<i>Abeyant</i>	25190	40	250	144.	67.00
<i>Abgregate</i>	25191	50	250	180.	79.00
<i>Abgragation</i>	25192	75	250	270.	117.00
<i>Abhat</i>	25193	100	250	360.	157.00
<i>Abhominable</i>	25194	$\frac{1}{2}$	500	1.6	17.00
<i>Rufescent</i>	20473	$\frac{1}{2}$	500	1.	17.00
<i>Ruff</i>	20474	1	500	2.	17.00
<i>Ruffed</i>	20475	2	500	4.	19.00
<i>Ruffin</i>	20476	3	500	6.	21.00
<i>Ruffinnism</i>	20477	5	500	10.	26.00
<i>Ruffinly</i>	20478	$7\frac{1}{2}$	500	15.	30.00
<i>Ruffinnous</i>	20479	10	500	20.	34.00
<i>Ruffle</i>	20480	15	500	30.	36.00
<i>Ruffenient</i>	20481	20	500	38.	39.00
<i>Abhor</i>	25195	25	500	48.	44.00
<i>Abhorrence</i>	25196	30	500	58.	64.00
<i>Abhorrency</i>	25197	40	500	72.	64.00
<i>Abhorrent</i>	25198	50	500	90.	78.00
<i>Abhorrently</i>	25199	75	500	135.	106.00
<i>Abhorrer</i>	25200	100	500	180.	139.00

Spring Starters—Motor Starting Rheostats.

Provided with Safety Spring Switch.

"SS" Type.



No. 25201.

Code Word	List No.	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price, Each.
<i>Abhorrib</i>	25201	$\frac{1}{2}$	125	2.5	7.00
<i>Ruffleless</i>	20482	$\frac{1}{2}$	125	4.	7.00
<i>Ruffler</i>	20483	1	125	8.	8.50
<i>Ruffous</i>	20484	2	125	16.	10.00
<i>Ruft</i>	20485	3	125	24.	13.00
<i>Rufferkhood</i>	20486	5	125	40.	17.00
<i>Rug</i>	20487	$7\frac{1}{2}$	125	60.	22.00
<i>Rugate</i>	20488	10	125	80.	27.00
<i>Rugged</i>	20489	15	125	120.	40.00
<i>Ruggedly</i>	20490	20	125	150.	40.00
<i>Ruggedness</i>	20491	25	125	190.	52.00
<i>Rugging</i>	20492	30	125	230.	72.00
<i>Abhorring</i>	25202	40	125	288.	75.00
<i>Abib</i>	25203	50	125	360.	85.00

Carpenter Enamel Rheostats.—(Continued.)

Spring Starters—(Continued.)

Motor Starting Rheostats.

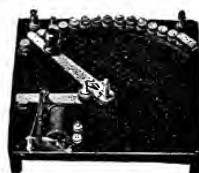
Provided with Safety Spring Switch.

"SS" Type.



No. 20493.

Code Word	List No.	H. P. of Motor	Volts	Max. Amp. for 15 Sec.	List Price Each.
Abundum	25121	$\frac{1}{2}$	250	1.2	\$ 7.00
Ruggman	20493	$\frac{1}{2}$	250	2.	7.00
Ruggodned	20494	1	250	4.	8.50
Ruggy	20495	2	250	8	10.00
Rugin	20496	3	250	12	13.00
Rugine	20497	5	250	20.	17.00
Rugose	20498	$7\frac{1}{2}$	250	30.	22.00
Ruglose	20499	10	250	40.	26.00
Ruin	20500	15	250	60.	32.00
Ruinable	20501	20	250	75.	35.00
Ruinute	20502	25	250	95	40.00
Ruination	20503	30	250	115	60.00
Abinet	25122	40	250	144.	60.00
Abunga	25123	50	250	180	72.00
Abunnation	25124	75	250	270.	110.00
Abuniton	25125	100	250	360.	150.00
Abaptist	25126	$\frac{1}{2}$	500	6	9.00
Ruiner	20504	$\frac{1}{2}$	500	1.	9.00
Ruinform	20505	1	500	2.	9.00
Ruinous	20506	2	500	4.	11.00
Ruinously	20507	3	500	6.	13.00
Ruinousness	20508	5	500	10.	18.00
Rukh	20509	$7\frac{1}{2}$	500	15.	22.00
Ruinble	20510	10	500	20.	26.00
Rule	20511	15	500	30.	28.00
Ruleless	20512	20	500	38.	31.00
Ruler	20513	25	500	48.	36.00
Ruling	20514	30	500	58.	56.00
Abaptistion	25127	40	500	72.	56.00
Abure	25128	50	500	90.	70.00
Aburiculation	25129	75	500	135.	97.00
Abas	25130	100	500	180.	130.00



No. 20515.

Leoard Universal Automatic Rheostat.

With "Overload" and "No Voltage" Release.

"DL" Type.

Code Word.	List No.	H. P. of Motor	Volts	Max. Amp. for 15 Sec.	List Price Each.
Abnuhent	25131	$\frac{1}{2}$	125	2.5	\$24.00
Rulingly	20515	$\frac{1}{2}$	125	4.	24.00
Rullickies	20516	1	125	8	24.00
Ruly	20517	2	125	16.	24.00
Run	20518	3	125	24	24.00
Rumble	20519	5	125	40.	29.00
Rumber	20520	$7\frac{1}{2}$	125	60.	35.00
Rumblingly	20521	10	125	80.	40.00
Rumbud	20522	15	125	120.	55.00
Rumen	20523	20	125	150.	60.00
Abassi	25132	25	125	190.	70.00
Abassia	25133	30	125	230.	111.00
Abator	25134	40	125	288.	126.00
Abattis	25135	50	125	360.	172.00

Carpenter Enamel Rheostats.—(Continued.)

"D L" Type—(Continued.)

Leonard Universal Automatic Rheostat.

Code Word	List No	H. P. of Motor	Volts.	Max. Amp. for 15 Sec.	List Price Each.
Abatized	25136	$\frac{1}{2}$	250	1.2	\$24.00
Ruminal	20528	$\frac{1}{2}$	250	2	24.00
Ruminant	20529	1	250	4	24.00
Ruminant	20530	2	250	8	24.00
Rumination	20531	3	250	12	24.00
Ruminator	20532	5	250	20	29.00
Ruminsch	20533	$7\frac{1}{2}$	250	30	35.00
Runkin	20534	10	250	40	40.00
Rummage	20535	15	250	60	45.00
Abatude	25137	20	250	75	50.00
Abature	25138	25	250	95	55.00
Abosed	25139	30	250	115	75.00
Abattail	25140	40	250	144	85.00
Abattical	25141	50	250	180	90.00
Abba	25142	75	250	270	185.00
Abatship	25143	100	250	360	230.00
Rumney	20539	$\frac{1}{2}$	500	6	26.00
Rumous	20540	$\frac{1}{2}$	500	1	26.00
Rumorer	20541	1	500	2	26.00
Rumorous	20542	2	500	4	26.00
Rump	20543	3	500	6	27.00
Runper	20544	5	500	10	32.00
Rumped	20545	$7\frac{1}{2}$	500	15	36.00
Rumple	20546	10	500	20	40.00
Rumpless	20547	15	500	30	45.00
Abbreacite	25144	20	500	38	46.00
Abbreviation	25145	25	500	48	50.00
Abbreviator	25146	30	500	58	70.00
Abbreviatory	25147	40	500	72	75.00
Abbreviature	25148	50	500	90	88.00
Abb-wool	25149	75	500	135	135.00
Abdul	25150	100	500	180	180.00



No. 20528.



No. 20551.

Reversing Controllers.

Reversing Controllers, for Reversing Direction of Rotation and for Controlling Speed of Motors. "RR" Type.

One of the most difficult problems in connection with electric motors, is to secure a perfect device for operating a motor at a variable speed at will, and reversing its direction of rotation.

We handle a full line of reversing Rheostats for motors, from $\frac{1}{2}$ H. P. to 100 H. P., and of any voltage. Also a complete line of field reversing Rheostats. We make a specialty of such Rheostats for traveling crane service and elevator service, and can ordinarily make prompt shipment from stock for usual sizes.

These controllers are provided with quick break devices, in connection with controlling switch, so that when bringing the motor to rest from either direction of rotation the arc is broken instantly.

Code Word	List No	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price Each.
Abderinn	25151	2	125	16	\$85.00
Abderite	25152	3	125	24	85.00
Abdert	25153	5	125	40	90.00
Abdicant	25154	$7\frac{1}{2}$	125	60	105.00
Abdication	25155	10	125	80	105.00
Abdicative	25156	15	125	120	260.00
Abditory	25157	20	125	150	280.00
Abdomen	25158	25	125	190	300.00
Abdominal	25159	30	125	230	420.00
Abdominopy	25160	40	125	288	460.00
Abdominous	25161	50	125	360	500.00

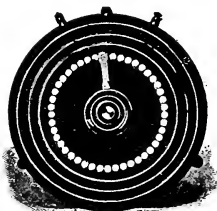
Carpenter Enamel Rheostats.—(Continued.)

"RR" Type.—Continued.

Reversing Controllers.



Code Word.	List No.	H. P. of Motor.	Volts.	Max. Amp. for 15 Sec.	List Price, Each.
Abidance	25204	2	250	8.	\$85.00
Abider	25205	3	250	12.	85.00
Runer	20559	5	250	20.	90.00
Rung	20560	7½	250	30.	105.00
Runhead	20561	10	250	40.	105.00
Runic	20562	15	250	60.	125.00
Runlet	20563	20	250	75.	145.00
Runnel	20564	25	250	95.	300.00
Abidingly	25206	30	250	115.	320.00
Abiotic	25207	40	250	144.	360.00
Abigail	25208	50	250	180.	400.00
Abiliment	25209	75	250	270.	600.00
Abintestate	25210	100	250	360.	700.00
Abirreosion	25211	2	500	4.	105.00
Abjudicate	25212	3	500	6.	105.00
Runnet	20566	5	500	10.	105.00
Running	20567	7½	500	15.	105.00
Runnion	20568	10	500	20.	105.00
Runt	20569	15	500	30.	125.00
Rupes	20570	20	500	38.	145.00
Rupellary	20571	25	500	48.	165.00
Abjudication	25213	30	500	58.	185.00
Abvante	25214	40	500	72.	225.00
Abvante	25215	50	500	90.	265.00
Abvuration	25216	75	500	135.	525.00
Abvuratory	25217	100	500	180.	625.00

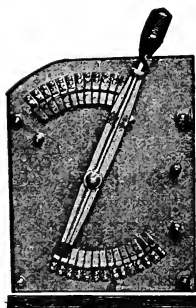


Ventilating-Fan Speed Controllers.

Reducing Speed of Fan and Series Wound Motor to Half-Full Speed.

"SV" Round Type. "V" Square Type.

Code Word.	List No.	H. P. of Motor.	Volts.	Type.	Max. Amp. at full Speed of Fan.	List Price Each.
Abvurement	25218	1½	125	SV	1.	\$3.70
Abvurer	25219	2	125	SV	1.5	3.70
Abvurate	25220	3	125	SV	2.	3.70
Abvuration	25221	4	125	V	1.5	7.00
Abvurate	25222	5	125	V	2.5	7.00
Abvuration	25223	7½	125	V	4.	7.00
Able-bodied	25224	1	125	V	8.	11.00
Abvurate	25225	2	125	V	16.	15.00
Abvuration	25226	3	125	V	24.	22.00
Able	25227	5	125	V	40.	38.00
Ablet	25228	7½	125	V	60.	40.00
Abvurate	25229	10	125	V	80.	70.00
Ablepsy	25230	15	125	V	120.	90.00
Ablet	25231	1½	250	SV	.5	4.50
Ablet	25232	2	250	SV	.75	4.50
Abvurate	25233	3	250	V	.5	8.00
Abvuration	25234	4	250	V	1.2	8.00
Abvuration	25235	5	250	V	2	9.00
Abvurate	25236	7½	250	V	4.	11.00
Abvuration	25237	10	250	V	8	15.00
Abvurate	25238	15	250	V	12	22.00
Abvurate	25239	20	250	V	20.	38.00
Abvurate	25240	30	250	V	30.	40.00
Abvuration	25241	40	250	V	40.	55.00
Abvuration	25242	50	250	V	60.	72.00
Abvuration	25243	75	500	V	.6	18.00
Abvuration	25244	100	500	V	1.	12.00
Abvuration	25245	1	500	V	2.	12.00
Abvurate	25246	2	500	V	4.	14.00
Abvurate	25247	3	500	V	6.	23.00
Abvuration	25248	5	500	V	10.	38.00
Abvuration	25249	7½	500	V	15.	40.00
Abvurate	25250	10	500	V	20.	55.00
Abvuration	25251	15	500	V	30.	72.00

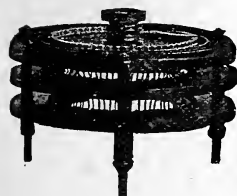




No. 20593.



No. 20607.



No. 20609.



No. 20611.

Carpenter Enamel Rheostats.—(Continued.)

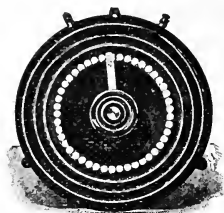
125 Volt Round Type, Field Rheostats.

For Front of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price, Each.
<i>Rusher</i>	20593	.5	250.	300.	24	.227	8	\$ 12.50
<i>Rushgrass</i>	20594	.62	200.	240.	24	.284	8	12.50
<i>Rushiness</i>	20595	.75	166.	200.	24	.341	8	12.50
<i>Rushingly</i>	20596	1.	125.	150.	24	.454	8	12.50
<i>Rushlight</i>	20597	1.25	100.	120.	24	.568	8	12.50
<i>Rushlike</i>	20598	1.5	83.	100.	24	.683	8	12.50
<i>Rushring</i>	20599	2.	62.5	75.	24	.91	8	12.50
<i>Rushy</i>	20600	2.5	50.	60.	24	1.13	8	12.50
<i>Rusk</i>	20601	3.	42.	50.	24	1.35	8	12.50
<i>Rusma</i>	20602	4.	31.	37.5	33	1.82	10	14.25
<i>Russ</i>	20603	5.	25.	30.	44	2.27	12	18.50
<i>Russett</i>	20604	6.	21.	25.	44	2.7	12	18.50
<i>Russetting</i>	20605	8.	15.6	18.75	60	3.64	15	24.50
<i>Russety</i>	20606	10.	12.5	15.	60	3.33	15	24.50
<i>Russinleather</i>	20607	12.5	10.	12.	60	5.7	15	39.00
<i>Russia</i>	20608	16.	7.8	9.3	60	7.3	15	39.00
<i>Russian</i>	20609	20.	6.2	7.5	60	9.1	15	56.00
<i>Rust</i>	20610	25.	5.	6.	60	11.36	15	56.00

For Back of Board.

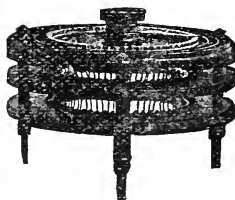
Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price, Each.
<i>Rusful</i>	20611	.5	250.	300.	24	.227	8	\$ 25.00
<i>Rustic</i>	20612	.62	200.	240.	24	.284	8	25.00
<i>Rustical</i>	20613	.75	166.	200.	24	.341	8	25.00
<i>Rustically</i>	20614	1.	125.	150.	24	.454	8	25.00
<i>Rusticlike</i>	20615	1.2	100.	120.	24	.568	8	25.00
<i>Rustiction</i>	20616	1.5	83.	100.	24	.683	8	25.00
<i>Rusticity</i>	20617	2.	62.5	75.	24	.91	8	25.00
<i>Rusting</i>	20618	2.5	50.	60.	24	1.13	8	25.00
<i>Rustiness</i>	20619	3.	42.	50.	24	1.35	8	25.00
<i>Rustjoint</i>	20620	4.	31.	37.5	33	1.82	10	27.50
<i>Rustle</i>	20621	5.	25.	30.	44	2.27	12	31.50
<i>Rustler</i>	20622	6.	21.	25.	44	2.7	12	31.50
<i>Rusty</i>	20623	8.	15.6	18.75	60	3.64	15	37.00
<i>Ru</i>	20624	10.	12.5	15.	60	3.33	15	37.00
<i>Rutabaga</i>	20625	12.5	10.	12.	60	5.7	15	48.00
<i>Rutaceous</i>	20626	16.	7.8	9.3	60	7.3	15	48.00
<i>Ruth</i>	20627	20.	6.2	7.5	60	9.1	15	66.00
<i>Ruthenium</i>	20628	25.	5.	6.	60	11.36	15	66.00



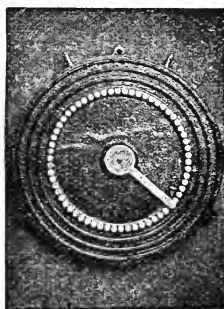
No. 20629.



No. 20637.



No. 20639.



No. 20641.

Carpenter Enamel Rheostats.—(Continued.)

250 Volt Round Type, Field Rheostats.

For Front of Board.

Fig. 8, 9 and 10.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price. Each.
<i>Rutiful</i>	20629	1	250	300	44	.454	12	\$18.50
<i>Ruthfully</i>	20630	1.25	200	240	44	.568	12	18.50
<i>Ruthless</i>	20631	1.5	166	200	44	.682	12	18.50
<i>Rutidosia</i>	20632	2.	125	150	44	.909	12	18.50
<i>Rutit</i>	20633	2.5	100	120	44	1.136	12	18.50
<i>Rutituit</i>	20634	3	83	100	44	1.366	12	18.50
<i>Rutitute</i>	20635	4	62	75	60	1.82	15	24.50
<i>Rutitio</i>	20636	5	50	60	60	2.27	15	24.50
<i>Rutter</i>	20637	6.25	40	48.5	60	2.84	15	39.00
<i>Rutterkin</i>	20638	8.	31	37	60	3.65	15	39.00
<i>Ruttier</i>	20639	10.	25	30	60	4.54	15	56.00
<i>Ruttish</i>	20640	12.5	20	24	60	5.7	15	56.00

For Back of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price. Each.
<i>Ruttishness</i>	20641	1.	250	300	44	.454	12	\$31.50
<i>Ruttio</i>	20642	1.25	200	240	44	.568	12	31.50
<i>Rutty</i>	20643	1.5	166	200	44	.682	12	31.50
<i>Ryut</i>	20644	2.	125	150	44	.909	12	31.50
<i>Ryder</i>	20645	2.5	100	120	44	1.136	12	31.50
<i>Rye</i>	20646	3	83	100	44	1.366	12	31.50
<i>Ryegrass</i>	20647	4.	62	75	60	1.82	15	37.00
<i>Rynachops</i>	20648	5.	50	60	60	2.27	15	37.00
<i>Rynd</i>	20649	6.25	40	48.5	60	2.84	15	48.00
<i>Rynt</i>	20650	8.	31	37.5	60	3.65	15	48.00
<i>Ryth</i>	20651	10.	25	30	60	4.54	15	66.00
<i>Rytua</i>	20652	12.5	20	24	60	5.7	15	66.00

500 Volt Round Type, Field Rheostats.

Front of Board.

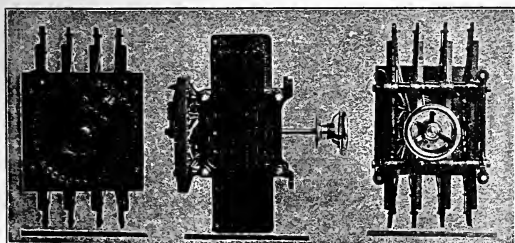
Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price. Each.
<i>Sadah</i>	20653	1.25	400	480	44	.568	12	\$18.50
<i>Saba</i>	20654	1.5	333	400	44	.682	12	18.50
<i>Sabadilla</i>	20655	2.	250	300	60	.909	15	24.50
<i>Sabaean</i>	20656	2.5	200	240	60	1.14	15	24.50
<i>Sabaeanism</i>	20657	3.	166	200	60	1.36	15	39.00
<i>Sabism</i>	20658	4.	125	150	60	1.82	15	39.00
<i>Sabul</i>	20659	5.	100	120	60	2.27	15	56.00
<i>Sabouth</i>	20660	6.25	80	96	60	2.84	15	56.00

Carpenter Enamel Rheostats.—(Continued.)

500 Volt Round Type, Field Rheostats.

For Back of Board.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam. ins.	List Price Each.
<i>Sabnatn</i>	20661	1 25	400	480	44	.568	12	\$31.50
<i>Sabnat</i>	20662	1.5	333	400	44	.682	12	31.50
<i>Sabnatvarian</i>	20663	2.	250	300	60	.909	15	37.00
<i>Sabnatia</i>	20664	2.5	200	240	60	1.14	15	37.00
<i>Sabnatie</i>	20665	3.	166	200	60	1.36	15	48.00
<i>Sabnatism</i>	20666	4.	125	150	60	1.82	15	48.00
<i>Sabnatons</i>	20667	5.	100	120	60	2.25	15	66.00
<i>Sabnane</i>	20668	6.25	80	96	60	2.84	15	66.00



No. 20669 to 20704.

Field Rheostats of Large Capacity.

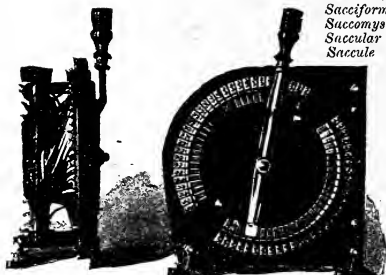
For Railway and Large Incandescent Lighting Generators.

Code Word.	List No.	Max. Amp. 1st Step.	Ohms of Field to which Rheostat is well suited.	Ohms of Rheostat	No. of Steps.	Ampere Capacity of Last Step.	Volts.	List Price Each.
<i>Sabeau</i>	20669	8.	18.7	22.5	80	3.6	150	\$ 70.00
<i>Sabeison</i>	20670	10.	15.	18.	80	4.5	"	70.00
<i>Sabellu</i>	20671	12.	12.5	15.	80	5.4	"	84.00
<i>Sabellana</i>	20672	16.	9.4	11.2	80	7.2	"	84.00
<i>Sabellian</i>	20673	20.	7.5	9.	80	9.	"	84.00
<i>Saber</i>	20674	24.	6.2	7.5	80	10.8	"	98.00
<i>Sabian</i>	20675	32.	4.7	5.6	80	14.4	"	112.00
<i>Sabianism</i>	20676	40.	3.7	4.5	80	18.	"	127.00
<i>Sabine</i>	20677	48.	3.1	3.8	80	21.6	"	156.00
<i>Sable</i>	20678	64.	2.3	2.8	80	28.8	"	184.00
<i>Sablemouse</i>	20679	80.	1.9	2.2	80	36.	"	200.00
<i>Sablere</i>	20680	100.	1.5	1.8	80	45.	"	230.00
<i>Sabot</i>	20681	128.	1.2	1.4	80	57.6	"	315.00
<i>Sabulous.</i>	20682	4.	75.	90.	80	1.8	300	70.00
<i>Sac</i>	20683	5.	60.	72.	90	2.2	"	70.00
<i>Sacar</i>	20684	6.	50.	60.	80	2.7	"	84.00
<i>Sacade</i>	20685	8.	37.5	45.	80	3.6	"	84.00
<i>Sacote</i>	20686	10.	30.	36.	90	4.5	"	84.00
<i>Saccharic</i>	20687	12.	25.	30.	80	5.5	"	98.00
<i>Saccharifous</i>	20688	16.	18.7	22.5	80	7.2	"	112.00
<i>Saccharify</i>	20689	20	15.	18.	80	9.0	"	112.00
<i>Saccharilla</i>	20690	24.	12.5	15.	80	11.0	"	142.00
<i>Saccharimety</i>	20691	32.	9.4	11.2	80	14.4	"	170.00

Carpenter Enamel Rheostats.—(Continued).

For Railway Generators.

Code Word	List No.	1st Step.	Max Amp.	Ohms of Field to which Rheostat is well Suited.		No. of Steps.	Ohms of Rheostat.	Ampere Capacity of Last Step.	Volts	List Price Each
<i>Saccharine</i>	20692		2	300	360.	80	91	600		\$ 70.00
<i>Saccharize</i>	20693		2 5	240	288	80	1.13	600		70.00
<i>Saccharoid</i>	20694		3	200	240	80	1.36	600		84.00
<i>Saccharoidal</i>	20695		4	150	180	80	1.81	600		84.00
<i>Saccharometer</i>	20696		5	120	144	80	2.27	600		84.00
<i>Saccharuin</i>	20697		6.	100	120	80	2.72	600		98.00
<i>Saccholate</i>	20698		8	75	90	80	3.63	600		112.00
<i>Saccholate</i>	20699		10	60	72	80	4.54	600		112.00
<i>Sacchulmic</i>	20700		12	50.	60	80	5.45	600		142.00
<i>Sacchiform</i>	20701		16	37 5	45	80	7.26	600		170.00
<i>Saccomys</i>	20702		20	30	36	80	9.09	600		170.00
<i>Sacculus</i>	20703		25	24.	28.8	80	11.36	600		200.00
<i>Sacculle</i>	20704		32	18 75	22 5	80	14.54	600		285.00



No. 20705.

Theatre Dimmers.

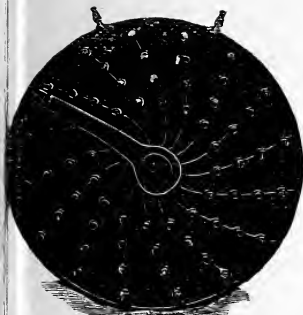
It is safe as regards fire risk, is self-contained, and is shipped complete from factory ready to set up on the stage and connect the two circuit wires to it.

			No. of the C. P. 100-125 Volt or 125-150 Volt Controlled	No. of Steps.	Max. Amperes First Step	Max. Amperes Last Step	Dimensions (Inches Over All) when in position shown in cut			Approx. Weights in lbs	List Price Each
Code Word	List No	Type					Horizontal Along Pivot Axis	Across Pivot Axis.	Vertical Across Pivot Axis.		
<i>Aboding</i>	25252	SD	1 4	5	1 14	2 13	5	5	1 1/2	14	\$ 4.50
<i>Abote</i>	25253	"	2 4	1 5	3 14	5	5	5	1 1/2	14	4.50
<i>Abolis</i>	25254	"	3 4	1 5	3 14	5	5	5	1 1/2	14	4.50
<i>Abolishable</i>	25255	"	6 9	3	6 34	5 1/2	7	7	5	11	9.50
<i>Abolishment</i>	25256	"	12 13	6	12 34	7	7	7	5	11	11.00
<i>Abolishism</i>	25257	"	15 16	7 5	15 4	9	9	9	8	14.50	
<i>Abolitionism</i>	25258	"	20 16	10	2 4	9	9	9	8	14.50	
<i>Abolitionist</i>	25259	"	25 18	12 5	2 5 4	11	11	11	16	19.00	
<i>Abolitionize</i>	25260	"	30 18	15	3 4	11	11	11	16	19.00	
<i>Abolla</i>	25261	"	40 22	20	4 5	14	14	14	30	27.00	
<i>Aboma</i>	25262	"	50 22	25	5 5	14	14	14	30	27.00	
<i>Abomasus</i>	25263	BD	20-50	50	25	5	18	36	87	40.00	
<i>Abomasus</i>	25264	"	30-75	50	37.5	7 5	6	18	36	87	40.00
<i>Abominable</i>	25265	"	40-100	50	50	10	6	18	36	87	45.00
<i>Abominabler</i>	25266	"	50-125	50	62.5	12.5	6	18	36	87	50.00
<i>Abomination</i>	25267	"	60-150	50	75	15	6	18	36	87	50.00
<i>Aboon</i>	25268	"	70-175	50	87.5	17.5	10	18	36	170	80.00
<i>Abord</i>	25269	"	80-200	50	100	20	10	18	36	170	85.00
<i>Aborsive</i>	25270	"	90-225	50	112.5	22.5	10	18	36	170	90.00
<i>Aboud</i>	25273	"	100-250	50	125	25	10	18	36	170	95.00
<i>Above-board</i>	25274	"	110-275	50	137.5	27.5	10	18	36	170	100.00
<i>Above-cited</i>	25275	"	120-300	50	150	30	10	18	36	170	110.00

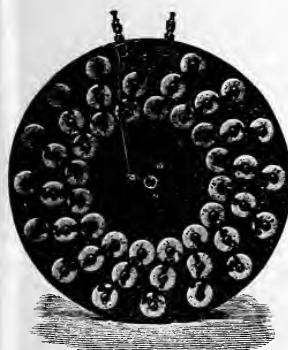
With Interlocking Switches. "IBD" Type. 100-125 Volt Lamps.

<i>Above-deck</i>	25276	"	20-50	50	25	5	8	18	44	112	65.00
<i>Above-said</i>	25277	"	30-75	50	37.5	7.5	8	18	44	112	65.00
<i>Abraid</i>	25278	"	40-100	50	50	10	8	18	44	112	70.00
<i>Abrazem</i>	25279	"	50-125	50	62.5	12.5	8	18	44	112	75.00
<i>Abrazas</i>	25280	"	60-150	50	75	15	8	18	44	112	75.00
<i>Abraz</i>	25281	"	70-175	50	87.5	17.5	12	18	44	195	105.00
<i>Abrenounce</i>	25282	"	80-200	50	100	20	12	18	44	195	110.00
<i>Abrook</i>	25283	"	90-225	50	112.5	22.5	12	18	44	195	115.00
<i>Abroach</i>	25284	"	100-250	50	125	25	12	18	44	195	120.00
<i>Abrogation</i>	25285	"	110-275	50	137.5	27.5	12	18	44	195	125.00
<i>Abrood</i>	25286	"	120-300	50	150	30	12	18	44	105	135.00

American "Universal" Enamel Field Rheostats.



[Front view.]



[Back view.]

The "Universal" rheostat is compact, fire proof, and meets all the requirements of underwriters and municipal inspectors.

The most important feature gained is by having each step of resistance independent, detachable and of small area. Each section of the resistance is made up of a small steel enamelled disc, the resistance being imbedded in the enamel and having copper strip terminals arranged so they are easily connected in series, one disc with another, as shown in the illustration of the back of the plate. Each disc has a hole in its centre which coincides with one on the plate when mounted, through which a flat headed bolt is passed from the front of the plate under the nut of which, when screwed in place, the terminals are clamped, the flat head making the contact point on the front to engage the usual movable arm.

As every step of the "Universal" is removable it is obvious that within certain limits numerous combinations of resistance sections may be made on any one plate. It is only necessary for us to define the limits of each size of plates, leaving you to indicate just what you want, instead of submitting an arbitrary list to which you must conform. To fill orders promptly we have a quantity of a few sizes of plates ready for the resistance and a complete stock of the resistance required, and assemble them to order. When we know what you want and it is within the limits of our lists we can ship on demand.

For convenience in ordering, the following tables define the limits of each different plate at the voltage mentioned and also give the list price for each size.

All are made for mounting on front or back of board, as ordered, and the same template for drilling the board answers for all sizes referred to in this catalogue, thereby avoiding the chance of having holes drilled wrong, due to any mistake in ordering.

For 550 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat.	Minimum Ohms in Field, on 550 Volts, required to keep Amperes within limit stated in column 1.	
1.	600	540	
1.25	574	432	Diameter of Plate..... 15 inches
1.5	528	384	No. of Steps..... 60
1.75	400	310	Price Front of Board..... \$28.00
2.	315	272	Price Back of Board..... 37.00
2.25	229	241	

Double Plates

2.5	287	216	
3.	264	192	Diameter of Plate..... 15 inches
3.5	200	155	No. of Steps..... 60
4.	158	136	Price Front of Board..... \$50.00
4.5	115	121	Price Back of Board..... 60.00

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

American "Universal" Enamel Field Rheostats.

For 125 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat	Minimum Ohms in Field, on 125 Volts, required to keep Amperes within limit stated in column 1.	
1.	250	115	
1.25	244	92	
1.5	231	77	
1.75	206	67	Diameter of Plate.... 9 inches
2.	184	59	No. of Steps..... 25
2.25	160	53	Price Front of Board..... \$15.00
2.5	134	48	Price Back of Board..... 26.00
2.75	101	43	
3.	79	40	
3.5	47.6	34	
4.	32.7	30.4	
1.	310	115	
1.5	291	77	
2.	244	59	
2.5	195	48	Diameter of Plate.... 10 1/2 inches
3.	140	40	No. of Steps..... 31
3.5	95	34	Price Front of Board..... \$18.00
4.	70	30.4	Price Back of Board..... 27.00
4.5	44.7	27.2	
5.	28.5	24.5	
1.	450	115	
2.	384	59	
3.	273	40	Diameter of Plate.... 12 inches
4.	162	30.4	No. of steps..... 45
5.	56	24.5	Price Front of Board..... \$22.00
6.	26.5	19.7	Price Back of Board..... 31.00
7.	20.2	17.5	
1.	600	115	
3.	423	40	
5.	182	24.5	Diameter of Plate..... 15 inches
7.	38.8	17.5	No. of steps..... 60
8.	24.5	15.6	Price Front of Board..... \$28.00
9.	17.3	14	Price Back of Board..... 37.00
10.	14.5	12.4	
10.5	11.4	11.5	

Double Plates.

12.5	13.3	9.8	Diameter of Plate..... 12 inches
			No. of Steps..... 45
14	10.1	8.7	Price Front of Board..... \$40.00
			Price Back of Board..... 49.00
12.5	35.	9.8	
14	19.4	8.7	Diameter of Plate.. 15 inches
16.	12.3	7.7	No. of Steps..... 60
18.	8.7	6.9	Price Front of Board..... \$50.00
20.	7.3	6.1	Price Back of Board..... 60.00
21.	5.7	5.7	

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

American "Universal" Enamel Field Rheostats.

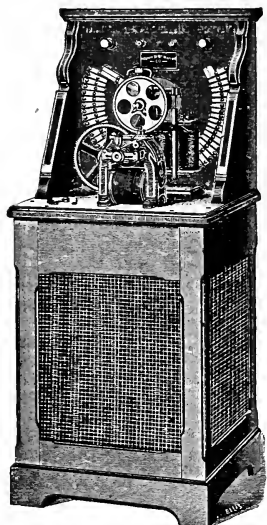
For 250 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat.	Minimum Ohms in Field, on 250 Volts, required to keep Amperes within limit stated in column 1.	
1.	250	240	Diameter of Plate.....9 inches No. of Steps.....25 Price Front of Board.....\$15.00 Price Back of Board.....20.00
1.25	195	192	
1.5	178	167	
1.75	161	139	
2.	136	122	
2.25	102	108	
1.	310	240	Diameter of Plate.....10½ inches No. of Steps.....31 Price Front of Board.....\$18.00 Price Back of Board.....27.00
1.5	238	167	
2.	186	122	
2.5	114	98	
1.	450	240	Diameter of Plate.....12 inches No. of steps.....45 Price Front of Board.....\$22.00 Price Back of Board.....31.00
2.	317	122	
3.	145	82	
4.	59	61	
1.	600	240	Diameter of Plate.....15 inches No. of steps.....60 Price Front of Board.....\$28.00 Price Back of Board.....37.00
2.	467	122	
3.	238	82	
4.	99	61	
5.	48	49	

Double Plates.

6	73.	41	Diameter of Plate.....12 inches No. of Steps.....45 Price Front of Board.....\$40.00 Price Back of Board.....49.00
8	29.5	30.5	
6.	119	41.	
8.	49.2	30.5	Diameter of Plate.....15 inches No. of Steps.....60 Price Front of Board.....\$50.00 Price Back of Board.....60.00
10.	24.	24.5	

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

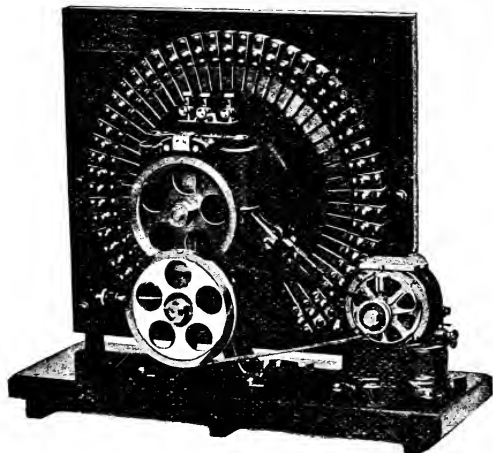


Controller and Rheostat.

Automatic Pressure Controller.

The Controller automatically builds up the machine as soon as the Armature begins to revolve, and keeps the pressure constant without the slightest variation, under all loads, and in spite of rapid changes in speed. The Controller saves time and insures a steady light and long life of the lamps.

List No.	List Price. Each.
25060 Controller in Cabinet with Rheostat	200.00
25061 Controller in Cabinet without Rheostat	150.00
25062 Motor and Rheostat for regulating speed, for use with above, extra	50.00
25063 For currents above 20 amperes and up to 100 amperes, extra	50.00
25064 Potential Indicator, direct current	40.00
25065 Potential Indicator, alternating current	50.00



Patented.

Controller Head.

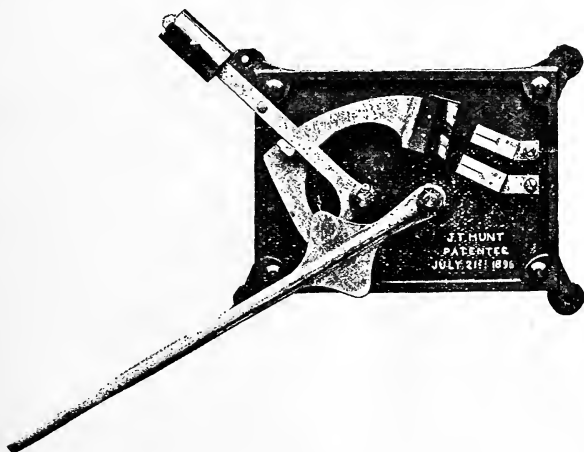
This is designed for use with rheostat ordinarily supplied with dynamo or power generator.

Arranged with pulley to be driven by countershaft or motor as shown.

25066 Controller Head with Pulley...	100.00
---	--------

Automatic Switches for Electric Motors.

Specially Adapted for Operating Electric Pumps.



The above cut represents switch for automatically starting and stopping electric motors (Series wound).

This Switch is for motors not exceeding half horse power.

Mounted on plain slate base in iron frame, with unfinished metal parts.....	\$12.00
Mounted on marbleized slate with japanned iron frame, all metal parts highly polished	15.00
Tinned copper ball float with 2 pulleys, 10 feet brass chain, weight and adjusting balls complete for the above	3.50

Separate Parts.

Tinned Copper Ball Float.....	1.50
Brass Chain, per foot .....	.10
Japanned Iron Pulleys, each.....	.25
Brass Box with Adjustable Weights .....	.75
Adjusting Balls, each. ....	.10

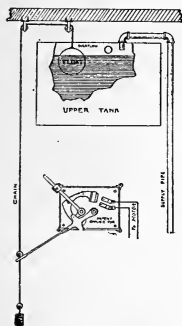


Fig. F represents Automatic Switch in position after cutting off current and stopping motor, the water in tank having reached the desired level. As the water is lowered the float in sinking raises the weight on chain running through slot in bottom lever of Switch until the lower adjusting ball reaches the lever.

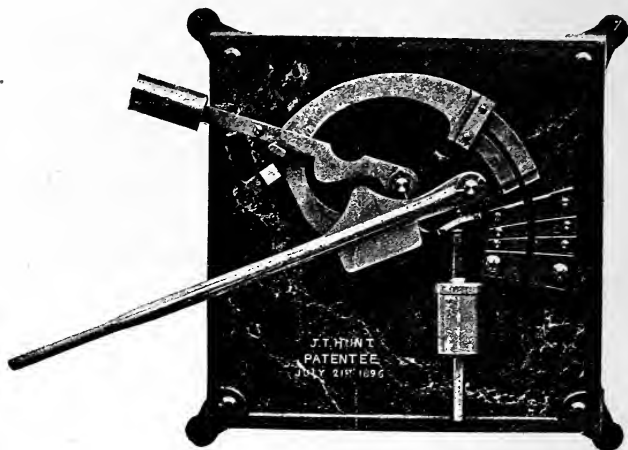
In lifting it gradually raises the top lever until it reaches a vertical position.

The weight on this lever then carries it over by gravity, causing it to strike the cam and make contact and start motor and pump.

Any desired depth of water can be maintained in the tank by altering the distance between the adjusting balls on chain running through the slot of switch lever

Fig. F

Automatic Switches for Electric Motors—(Continued)



The above cut represents Switch for automatically starting and stopping Electric Motors up to and including 5 H. P. Arranged to allow the current to gradually enter through resistance, preventing undue sparking at commutator at time of starting motor, thus taking the place of a starting box or rheostat as usually operated by hand.

This switch can be readily adjusted so that the time taken to turn on full current can be varied from 5 to 30 seconds.

Price List.

	Plain	Marbleized Slate with Metal Parts highly Polished
1 H. P	\$50.00	\$55.00
2 "	58.00	63.00
3 "	65.00	70.00
4 "	72.00	77.00
5 "	80.00	85.00

Tinned copper ball float, 2 pulleys, 10 feet brass chain, weight and adjusting balls, complete.

4.50

Separate Parts.

Tinned Copper Ball Float	2.50
Brass Chain, per foot . . . . .	.15
Japanned Iron Pulleys . . . . .	.40
Brass Box, with Adjusting Weights.	1.00
Adjusting Balls . . . . .	.10

Adjustable Rheostats.

This Rheostat is simple in construction, reliable in operation, and low in cost. It is perfectly fire-proof throughout, only iron and asbestos being used in its construction. The resistance wire is wound upon an asbestos covered wrought iron drum and over the wire is spread a layer of fire-proof cement.

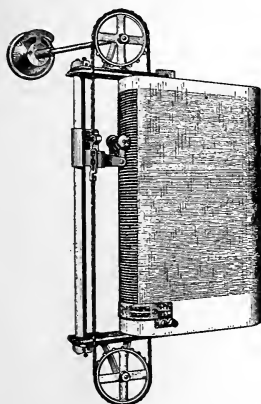
The drums are made both round and elliptical in shape and offer a large radiating surface which insures a cool and uniform action.

The contact with the resistance wire in the drum is made by a slide carrying a number of rollers, thereby insuring good contact at several points and avoiding any heating.

Owing to the form of the shell an exceedingly delicate graduation of resistance is obtained, and moreover the drum occupies but little space in width and is, therefore well adapted for use upon Station Switchboards.

These Rheostats can be operated directly or by mechanism connecting to the front of the Board.

Specify voltage when ordering.



No. 21020.

<i>Saltspring</i>	21016	For	1/2	K. W. Dynamos	\$20.00
<i>Softwater</i>	21017	"	3	"	20.00
<i>Saltwork</i>	21018	"	12	"	22.00
<i>Saltwort</i>	21019	"	15	"	22.00
<i>Salty</i>	21020	"	17	"	22.00
<i>Salubrious</i>	21021	"	20	"	24.00
<i>Salubriously</i>	21022	"	25	"	24.00
<i>Salubri</i>	21023	"	30	"	24.00
<i>Salubrity</i>	21024	"	40	"	24.00
<i>Salubrity</i>	21025	"	50	"	26.00
<i>Salubriness</i>	21026	"	60	"	26.00
<i>Salutary</i>	21027	"	75	"	26.00
<i>Salutation</i>	21028	"	100	"	26.00

Prices quoted on special sizes.

B.-F. Theatre Dimmers.

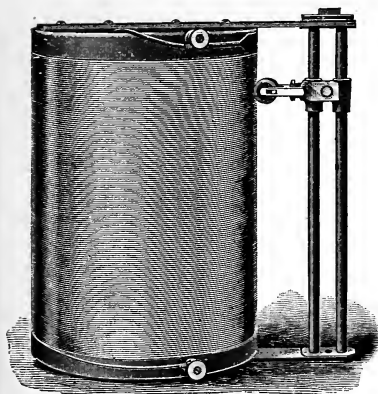
The Bairstow-Fanning Theatre Dimmer is an adjustable Rheostat for regulating the brilliancy of incandescent lamps for stage effects.

In construction these Dimmers resemble our adjustable rheostats described above.

The alterations in voltage of the lamps with the aid of these Dimmers, may be made so gradually that the change in illumination is entirely imperceptible; while on the other hand the lamps may be brought from a bright incandescence to a dull glow almost instantly. This valuable quality of rapidity of adjustment is entirely under control of the operator; while the great range and delicacy of gradations of the Dimmers is afforded by their design and construction.

These Theatre Dimmers are made not only to dim the lamps, i. e. to bring the lamps to a dull glow, but also to totally darken them if desired.

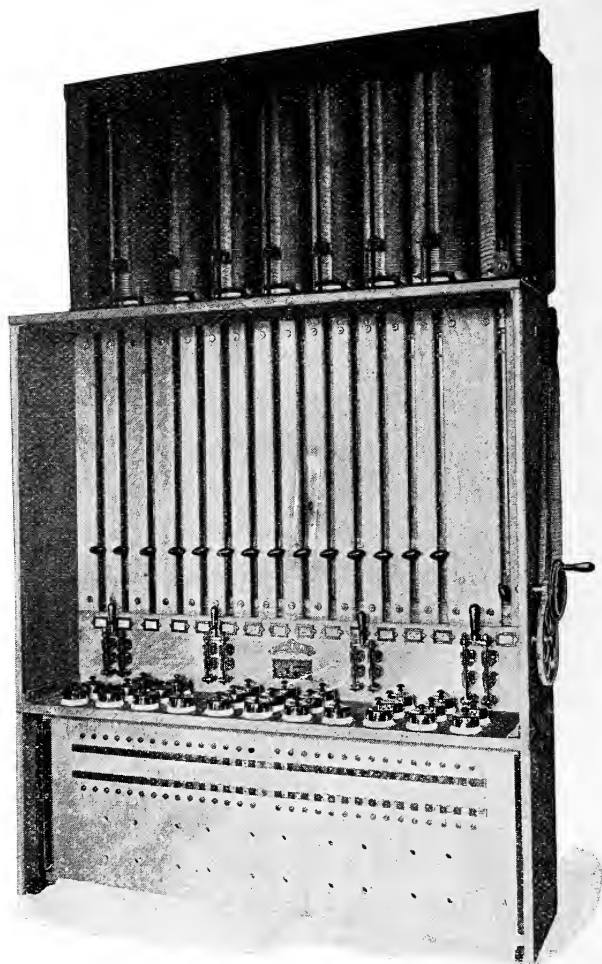
We have the sole right to manufacture these Dimmers and can furnish them in any size.



No. 372.

Interlocking Switchboard for Theatre Lighting.

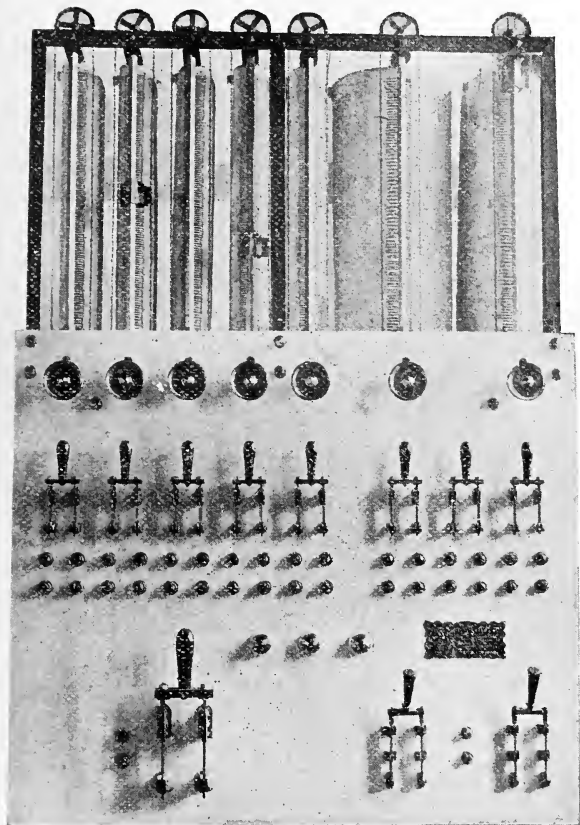
Equipped with B.=F. Rheostats.



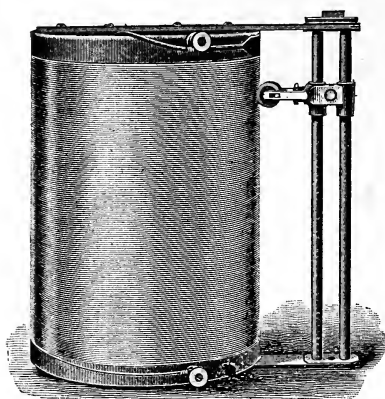
Erected in the Davidson Theatre,
Milwaukee, Wisconsin.

Switchboard for Theatre Lighting.

Equipped with B.-F. Rheostats.



Erected in the Oliver Opera House,
South Bend, Ind.



No. 372.

B.-F. Theatre Dimmers.—(Continued.)

Code Word.	List No.		List Price Each.
<i>Ibes</i>	372	10 Amperes, single	\$24.00
<i>Ibis</i>	373	20 " "	30.00
<i>Icarina</i>	374	25 " "	33.00
<i>Iceberg</i>	375	30 " "	36.00
<i>Icebunder</i>	376	35 " "	39.00
<i>Iceicle</i>	377	40 " "	42.00
<i>Icy</i>	378	50 " two in multiple	51.00
<i>Ida</i>	379	60 " " "	60.00
<i>Idenl</i>	380	70 " " "	75.00
<i>Idiom</i>	381	80 " " "	91.50
<i>Idiot</i>	382	90 " " "	110.00
<i>Idly</i>	383	100 " three " "	120.00
<i>Idolater</i>	384	125 " " "	136.00
<i>Idoltruss</i>	385	150 " four " "	160.00

Lightning Arresters.

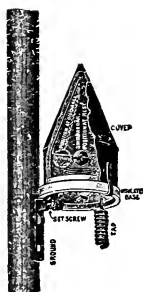
There are few problems in electrical engineering which have presented so many difficulties as that of protecting electrical apparatus against lightning.

The successful operation of lightning arresters depends largely—more than is ordinarily supposed—upon a systematic arrangements of the lightning arrester, or a combination of lightning arresters and choke coils, and upon the care with which the installation is made with reference to short straight ground wires, reliable earth connection and maintenance of these connections.

The protection of electric light and power circuits divides itself under two heads: first, the protection of distributing systems; second, the protection of transmission systems.

The Protection of Distributing Systems is effected by means of lightning arresters distributed at frequent intervals over the system. In suburban and otherwise exposed districts four to the mile of wire are recommended. In city districts two are usually found sufficient.

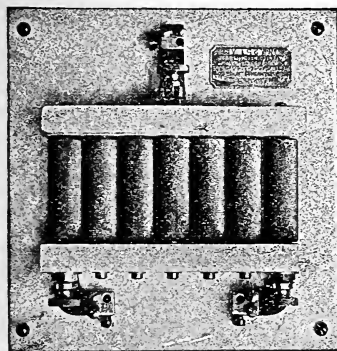
Power Transmission Systems do not require line arresters. The points of protection being at the extremities of the system, namely, in the power house and motor stations, a bank of lightning arresters, in combination with choke coils, is installed at each of these points. For voltages up to 3000 volts, four choke coils arranged in series in each wire, with lightning arresters intervening are recommended. For higher voltages than this, special combinations have to be made, according to the general characteristics of the system with reference to the capacity of the generator and the use of raising and lowering transformers.



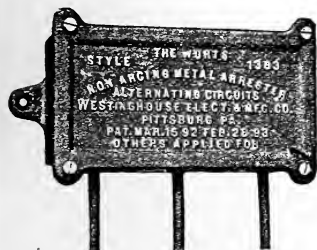
No. 126.

Swinging Ball Lightning Arrester.

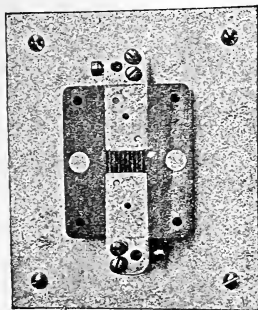
<i>Laceration</i>	126	Each	\$8.00
-------------------	-----	------	--------



No. 20763.



No. 20765.



No. 20767.

Lightning Arresters.

Wurt Lightning Arresters.

Double Pole Station Arrester.

Type A.

Code Word.	List No.	List Price. Each.
<i>Saddlery</i>	20763	For Alternating Current, Incandescent and Power Circuits, up to 1200 volts, each . . \$21.00
		Use two up to 2400 volts.
		Use three up to 3200 volts.

<i>Saddleshiped</i>	20764	For Alternating Current Arc Circuits, up to 3000 volts, each 21.00
---------------------	-------	--

Double Pole Line Arresters.

Type C.

<i>Saddletree</i>	20765	For Alternating Current, Incandescent and Power Circuits, up to 1200 volts, each . . 4.50
		Use two up to 2400 volts.
		Use three up to 3000 volts.

<i>Saddlucan</i>	20766	For Alternating Current Arc Circuits up to 3000 volts, each 4.50
------------------	-------	--

Single Pole Station Arrester.

Type K.—For Direct Current Only.

125 up to 600 volts.

<i>Saddlucan</i>	20767	Each 10.50
------------------	-------	----------------------



No. 20769.



No. 20770.



Lightning Arresters.—(Continued.)

Wurt Lightning Arresters.—(Continued.)

Single Pole Line Arrester.

Type J.

Code Word.	List No.	List Price. Each.
<i>Sadducee</i>	20768 For Direct Current Arc Circuits up to 4000 Volts.....	6.00
	Type J similar to Type L.	

Type L.

<i>Sadduceism</i>	20769 For Direct Current Circuits, 125 up to 600 Volts.....	4.50
-------------------	---	------

Single Pole Station Arrester.

Type I.

<i>Sadduceism</i>	20770 For Direct Current Arc Circuits up to 4000 Volts.....	8.25
-------------------	---	------

Double Pole Station Arrester.

Type F.

<i>Sadducee</i>	20771 For Direct Current, Brush Circuits only	21.00
-----------------	---	-------

Garton Lightning Arrester.

Lightning Arresters.

<i>Absolutist</i>	25312 Station Arrester, marble base	11.00
<i>Absolutistir</i>	25313 " " marbleized slate	11.00
<i>Absolutory</i>	25314 " " plain slate	8.00
<i>Absoluble</i>	25315 Pole Arrester, with iron cover.....	11.00
<i>Absolentory</i>	25316 " " wooden cover	8.00
<i>Absolute</i>	25317 Car " " iron cover.....	11.00

Kicking Coil.

<i>Absorons</i>	25318 Marble Base, 325 amperes	14.00
<i>Absorbabil</i>	25319 Wooden Base, 325 amperes	12.00
<i>Absorbable</i>	25320 Marble Base, 125 amperes	12.00
<i>Absorption</i>	25321 Plain Slate, 125 amperes	10.00
<i>Absorpt</i>	25322 Car and Stationary	9.00

IN ORDERING

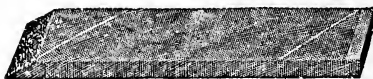
Garton Lightning Arresters

state voltage, and whether for
direct or alternating current.



Perfection Woven Wire Brushes.

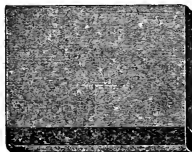
Code Word.	List No				List Price. Each.
<i>Salient</i>	20900	½ ins. wide, 3-16 ins. thick, 6 ins. long	.....		\$ .75
<i>Saliently</i>	20901	¾ " 1-4 " 7 "	.....		1.25
<i>Saliferous</i>	20902	¾ " 1-2 " 7 "	.....		1.50
<i>Salifiable</i>	20903	¾ " 1-4 " 7 "	.....		1.35
<i>Salification</i>	20904	1 " 1-8 " 7 "	.....		1.30
<i>Salify</i>	20905	1 " 1-4 " 7 "	.....		1.50
<i>Saligat</i>	20906	1 " 5-16 " 7 "	.....		1.60
<i>Salina</i>	20907	1½ " 1-4 " 7 "	.....		1.60
<i>Salination</i>	20908	1½ " 5-16 " 7 "	.....		1.70
<i>Saline</i>	20909	1½ " 3-8 " 7 "	.....		1.80
<i>Salineness</i>	20910	1½ " 1-2 " 7 "	.....		2.00
<i>Saliniferous</i>	20911	1½ " 1-4 " 7 "	.....		1.75
<i>Saliniform</i>	20912	1½ " 5-16 " 7 "	.....		1.90
<i>Salinometer</i>	20913	1½ " 3-8 " 7 "	.....		2.05
<i>Salinous</i>	20914	1½ " 1-2 " 7 "	.....		2.30
<i>Salique</i>	20915	1½ " 3-16 " 7 "	.....		1.75
<i>Salite</i>	20916	1½ " 1-4 " 7 "	.....		1.85
<i>Saliva</i>	20917	1½ " 5-16 " 7 "	.....		2.00
<i>Salival</i>	20918	1½ " 3-8 " 7 "	.....		2.20
<i>Salivant</i>	20919	1½ " 1-2 " 7 "	.....		2.50
<i>Salivary</i>	20920	1½ " 1-4 " 7 "	.....		2.00
<i>Salivate</i>	20921	1½ " 5-16 " 7 "	.....		2.20
<i>Salivation</i>	20922	1½ " 3-8 " 7 "	.....		2.40
<i>Salivous</i>	20923	1½ " 1-2 " 7 "	.....		2.75
<i>Salix</i>	20924	1½ " 5-8 " 7 "	.....		3.00
<i>Sallenders</i>	20925	1½ " 5-8 " 8 "	.....		3.25
<i>Sallet</i>	20926	1½ " 1-4 " 7 "	.....		2.20
<i>Salleting</i>	20927	1½ " 5-16 " 7 "	.....		2.50
<i>Salliance</i>	20928	1½ " 3-8 " 7 "	.....		2.75
<i>Sallow</i>	20929	1½ " 1-2 " 7 "	.....		3.25
<i>Sallowness</i>	20930	1½ " 1-4 " 7 "	.....		2.25
<i>Sallowthorn</i>	20931	1½ " 5-16 " 8 "	.....		2.35
<i>Sally</i>	20932	1½ " 3-8 " 8 "	.....		2.50
<i>Sallylunn</i>	20933	1½ " 1-2 " 8 "	.....		3.00
<i>Sallyport</i>	20934	1½ " 5-8 " 8 "	.....		3.50
<i>Salmagundi</i>	20935	1½ " 3-4 " 8 "	.....		4.00
<i>Salmiac</i>	20936	1½ " 7-8 " 8 "	.....		4.50
<i>Salmis</i>	20937	1½ " 1-4 " 7 "	.....		2.30
<i>Salmon</i>	20938	1½ " 5-16 " 8 "	.....		2.45
<i>Salmonet</i>	20939	1½ " 3-8 " 8 "	.....		2.75
<i>Salmonoid</i>	20940	1½ " 1-2 " 8 "	.....		3.50
<i>Salmonpel</i>	20941	1½ " 5-8 " 8 "	.....		4.25
<i>Salmonpipe</i>	20942	1½ " 5-8 " 12 "	.....		7.00
<i>Salmontrout</i>	20943	2 " 1-4 " 7 "	.....		2.50
<i>Salygen</i>	20944	2 " 5-16 " 8 "	.....		2.75
<i>Salon</i>	20945	2 " 3-8 " 8 "	.....		3.00
<i>Saloon</i>	20946	2 " 1-2 " 8 "	.....		3.75
<i>Saloop</i>	20947	2 " 5-8 " 8 "	.....		4.50
<i>Salop</i>	20948	2½ " 3-8 " 8 "	.....		3.30
<i>Salpa</i>	20949	2½ " 3-8 " 8 "	.....		3.50
<i>Salpian</i>	20950	2½ " 1-2 " 8 "	.....		4.25
<i>Salpicon</i>	20951	2½ " 5-8 " 8 "	.....		4.75
<i>Salpify</i>	20952	2½ " 5-16 " 8 "	.....		3.25
<i>Saltes</i>	20953	2½ " 3-8 " 8 "	.....		4.00



Perfection Woven Wire Brushes.

—(Continued.)

Code Word.	List No.						List Price. Each.
<i>Salsilla</i>	20954	2½	ins. wide,	1-2	ins. thick,	8 ins. long	\$4.50
<i>Salsacid</i>	20955	2½	"	"	5-8	" 8 "	5.00
<i>Salsoda</i>	20956	2½	"	"	3-8	" 8 "	4.25
<i>Salsolaceous</i>	20957	2½	"	"	1-2	" 8 "	4.75
<i>Salsuginous</i>	20958	2½	"	"	5-8	" 8 "	5.25
<i>Salt</i>	20959	3	"	"	3-8	" 8 "	4.50
<i>Saltant</i>	20960	3	"	"	1-2	" 8 "	5.00
<i>Saltarello</i>	20961	3	"	"	5-8	" 8 "	5.75
<i>Saltate</i>	20962	3	"	"	3-4	" 8 "	6.50
<i>Saltation</i>	20963	3½	"	"	1-4	" 8 "	3.00
<i>Saltatorini</i>	20964	3½	"	"	5-16	" 8 "	3.75
<i>Saltatory</i>	20965	3½	"	"	3-8	" 8 "	4.75
<i>Saltake</i>	20966	3½	"	"	1-2	" 8 "	5.50
<i>Saltcat</i>	20967	3½	"	"	5-8	" 8 "	6.50
<i>Saltcellar</i>	20968	3½	"	"	3-4	" 8 "	7.50



Carbon Brushes.

We give below a list of the Standard Carbon Brushes used on Western Electric Generators and Motors. In addition to this list we are prepared to quote prices on any size needed. When you are in the market for brushes write to us for special price list which will be mailed on application.

Code Word	List No.						List Price. Per 1000.
<i>Sapling</i>	21269	1½	x	¾	x	¼	\$20.00
<i>Saponaceous</i>	21270	1¾	x	¾	x	¾	20.00
<i>Saponacity</i>	21271	1¾	x	¾	x	¾	20.00
<i>Saponary</i>	21272	2	x	¾	x	¾	20.00
<i>Saponifiable</i>	21273	2	x	1	x	½	25.00
<i>Saponify</i>	21274	2	x	2	x	¾	40.00
<i>Saponine</i>	21275	2½	x	¾	x	¾	25.00
<i>Saponule</i>	21276	2½	x	1½	x	¾	25.00
<i>Sapor</i>	21277	2½	x	1½	x	½	25.00
<i>Saporific</i>	21278	2½	x	1½	x	1	40.00
<i>Saporosity</i>	21279	2½	x	1½	x	¾	25.00
<i>Saporous</i>	21280	2½	x	1½	x	¾	25.00
<i>Sapota</i>	21281	4	x	1½	x	¾	55.00
<i>Sappare</i>	21282	4	x	1½	x	¾	60.00
<i>Sapper</i>	21283	4	x	1½	x	¾	65.00
<i>Sapphic</i>	21284	4	x	1½	x	1	70.00
<i>Sappiness</i>	21286	4	x	2	x	1	80.00
<i>Sappy</i>	21287	4	x	2	x	1½	100.00
<i>Saproller</i>	21288	4	x	2	x	1½	130.00

Western Electric Non-Sparking Brushes.



Western Electric Non-Sparking Brushes are made under Patent No. 419,660, and are specially adapted for use on dynamos where metal brushes are ordinarily used.

The brushes are constructed with high resistance metal placed upon both sides of a low resistance, the object being to prevent sparking at the edges of the brushes when leaving the segments.

The principle on which these brushes work is shown in the cut. The armature coils are represented diagrammatically at *c c c*, and the brush is shown just before it leaves one of the commutator segments. It will be seen from an inspection of the cut that the current traveling up on either side of the armature, and passing into the brush from the segments *a* and *d*, has to pass through the high resistance metal of the brush, while the current can pass through the coils *c*¹ and *c*² into the segment *b*, and from there into the low resistance metal of the brush. Of course, under these conditions, the main body of the current goes through the low resistance metal, and as the segment *a* approaches nearer and nearer the tip of the brush the

resistance still further increases and the amount of current flowing from segment *a* into the brush is gradually diminished until just as the brush leaves the segment there is very little, if any, current to be interrupted, and consequently little or no sparking.

This action takes place whether the brush is in its proper position for the load it is carrying or not, the action in the latter case being to reduce the amount of current which has to be broken when the segment leaves the tip of the brush, and consequently when sparking does occur it is not as violent as if the ordinary low resistance brush was used.

An insulating medium is placed between the high resistance metal and the stiffening springs on the outside of the brushes which prevents the current from reaching the brush holder without first passing through the entire length of the brush.

These brushes are made of selected material of the best quality and in the most careful manner possible.

The outside strips of stiffened metal should never be allowed to touch the commutator. If this happens the high resistance metal is short-circuited and rendered useless.

When the brushes become worn down use a file or hack saw to cut away about an inch of the metal of the stiffening springs.

If brushes tend to spread at the toe, the stiffening springs may be bowed at the brush holder to hold the toe more tightly together. Tension may be light if commutator is true and smooth. Some lubrication is needed—oil is generally used, but in some cases something heavier is to be preferred, such as vaseline or tallow. There are very few commutators that do not need the occasional application of sandpaper if for no other reason than to keep the mica down to the level of the copper. A rub in time saves a trip to the repair shop.

Next to a smooth commutator, the most important condition for sparkless running of dynamo brushes is the amount of "lap," or length of bearing of the brush. The lap is determined by the thickness and the bevel of the "business end" of the brush. Except where otherwise specified Western Electric Brushes are made with a bevel of forty-five degrees. This repre-

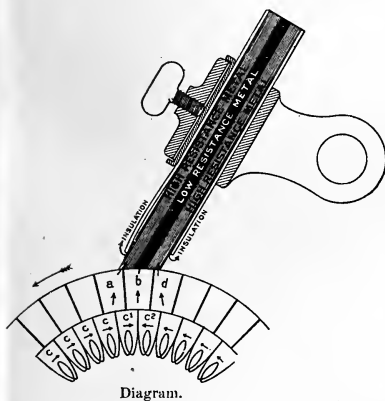


Diagram.



Showing Bow of Stiffening Spring.

Western Electric Non-Sparking Brushes.

(Continued.)

sents the common practice. Siemens & Halske brushes are beveled to twenty-nine degrees. It is not uncommon to find dynamos which have been running for years with totally wrong lap on the brushes. No rule can be laid down, but in most cases a little observation will show what is best for a particular dynamo, and after this has been determined the correct bevel should be maintained by trimming brushes when necessary. In some cases trimming can be saved in part by carefully shoving forward one brush at a time, allowing the natural wear to restore the original bevel.

Regular Stock Sizes of Western Electric Brushes.

See Special List for other Sizes.

Style.	Width.	Thickness.	Length.	Price.
A	$\frac{1}{2}$	$\frac{1}{16}$	8	\$.90
M	$\frac{3}{8}$	$\frac{1}{16}$	8	1.05
R	$\frac{1}{2}$	$\frac{1}{16}$	8	1.15
B	1	$\frac{1}{16}$	8	1.25
N	1	$\frac{1}{8}$	8	1.45
F	$1\frac{1}{2}$	$\frac{1}{8}$	8	1.15
I	$1\frac{1}{2}$	$\frac{1}{8}$	8	1.40
O	$1\frac{1}{2}$	$\frac{1}{8}$	8	1.65
D	$1\frac{1}{2}$	$\frac{1}{8}$	10	2.00
J	$1\frac{1}{2}$	$\frac{1}{8}$	10	2.60
P	$1\frac{1}{2}$	$\frac{1}{8}$	8	1.55
Q	$1\frac{1}{2}$	$\frac{1}{8}$	8	1.70
L	$1\frac{1}{2}$	$\frac{1}{8}$	10	2.05
C	$1\frac{1}{2}$	$\frac{1}{8}$	10	2.45
K	$1\frac{1}{2}$	$\frac{1}{8}$	10	3.25
G	$1\frac{1}{2}$	$\frac{1}{8}$	10	2.85
E	$1\frac{1}{2}$	$\frac{1}{8}$	12	4.60

Price List of Western Electric Brushes.

Thickness in Inches.	Length in Inches.	WIDTH IN INCHES.													
		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	2	
		\$0.55	\$0.60	\$0.55	\$0.70	\$0.75	\$0.80	\$0.85	\$0.90	\$0.95	\$1.00	\$1.05	\$1.10	\$1.15	
$\frac{1}{16}$	8	.65	.70	.75	.80	.85	.90	1.00	1.05	1.10	1.15	1.25	1.30	1.35	
	10	.75	.75	.80	.85	.90	1.05	1.10	1.20	1.25	1.30	1.40	1.45	1.50	
	12	.75	.80	.90	.95	1.00	1.10	1.15	1.20	1.25	1.30	1.40	1.45	1.50	
$\frac{1}{8}$	8	.80	.90	.95	1.05	1.15	1.20	1.30	1.35	1.45	1.50	1.60	1.70	1.75	
	10	.85	.95	1.05	1.15	1.25	1.35	1.45	1.50	1.65	1.70	1.80	1.90	2.00	
	12	.90	1.00	1.05	1.15	1.25	1.35	1.40	1.45	1.55	1.60	1.70	1.80	1.85	
$\frac{3}{16}$	8	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.85	1.95	2.05	2.15	
	10	1.05	1.20	1.30	1.40	1.50	1.65	1.75	1.90	2.00	2.15	2.25	2.35	2.50	
	12	1.10	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.80	1.90	2.00	2.10	2.20	
$\frac{1}{4}$	8	1.15	1.30	1.40	1.50	1.65	1.75	1.85	2.00	2.10	2.20	2.35	2.45	2.60	
	10	1.20	1.40	1.55	1.70	1.85	1.95	2.10	2.25	2.40	2.50	2.65	2.80	2.95	
	12	1.25	1.35	1.45	1.55	1.70	1.80	1.90	2.00	2.10	2.20	2.35	2.45	2.55	
$\frac{5}{16}$	8	1.35	1.50	1.60	1.75	1.90	2.05	2.15	2.30	2.45	2.60	2.70	2.85	3.00	
	10	1.45	1.60	1.80	1.95	2.10	2.30	2.45	2.60	2.75	2.90	3.10	3.25	3.40	
	12	1.40	1.50	1.65	1.80	1.90	2.00	2.15	2.30	2.40	2.50	2.65	2.80	2.90	
$\frac{3}{8}$	8	1.60	1.70	1.85	2.00	2.15	2.30	2.45	2.60	2.80	2.95	3.10	3.25	3.40	
	10	1.65	1.85	2.00	2.20	2.40	2.60	2.80	2.95	3.15	3.35	3.50	3.70	3.90	
	12	1.70	1.90	2.05	2.20	2.35	2.50	2.65	2.80	3.00	3.15	3.30	3.45	3.60	
$\frac{7}{16}$	8	1.90	2.05	2.25	2.45	2.65	2.85	3.05	3.25	3.45	3.65	3.85	4.05	4.20	
	10	2.05	2.25	2.50	2.75	3.00	3.20	3.45	3.70	3.90	4.15	4.40	4.60	4.85	

Thickness is given for the middle of the Brush.

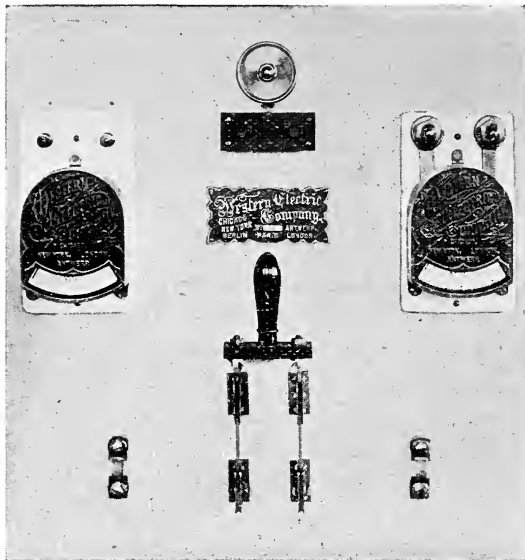
For price of 6 inch Brush, subtract from 8 inch, difference between 8 and 10 inch.

$\frac{1}{16}$ inch price will be charged for any size under that thickness.

Brush Copper.

REGULAR SIZES IN STOCK. SPECIAL SIZES MADE UPON SHORT NOTICE.

Nos. B. & S. Gauge.	$\frac{1}{8}$ in. and Narrower	Over $\frac{1}{8}$ in. to 1 in.	Over 1 in. to $1\frac{1}{2}$ in.	Over $1\frac{1}{2}$ in. to 2 in.	Over 2 in. to $2\frac{1}{2}$ in.	Over $2\frac{1}{2}$ in.
23	\$0.37 $\frac{1}{2}$	\$0.37	\$0.36 $\frac{1}{2}$	\$0.36 $\frac{1}{2}$	\$0.36 $\frac{1}{2}$	\$0.36
24	.37 $\frac{1}{2}$	.37	.36 $\frac{1}{2}$	.36 $\frac{1}{2}$	.36 $\frac{1}{2}$	.36
25	.38 $\frac{1}{2}$	.38	.37 $\frac{1}{2}$	.37 $\frac{1}{2}$	.37 $\frac{1}{2}$	.37
26	.38 $\frac{1}{2}$	.38	.37 $\frac{1}{2}$	.37 $\frac{1}{2}$	.37 $\frac{1}{2}$	.37
27	.40	.39 $\frac{1}{2}$	.39	.39	.39	.38
28	.40	.39 $\frac{1}{2}$	.39	.39	.39	.38
29	.41	.40 $\frac{1}{2}$	.40	.40	.40	.39
30	.41	.40 $\frac{1}{2}$	.40	.40	.40	.39
31	.43	.42	.41 $\frac{1}{2}$	.41 $\frac{1}{2}$	.41 $\frac{1}{2}$	.40
32	.43 $\frac{1}{2}$	.42 $\frac{1}{2}$	.41 $\frac{1}{2}$	.41 $\frac{1}{2}$	.41 $\frac{1}{2}$	.40
33	.44 $\frac{1}{2}$	.43 $\frac{1}{2}$	.42 $\frac{1}{2}$	.42 $\frac{1}{2}$	.42 $\frac{1}{2}$	.41
34	.44 $\frac{1}{2}$	.43 $\frac{1}{2}$	.42 $\frac{1}{2}$	.42 $\frac{1}{2}$	.42 $\frac{1}{2}$	.41
35	.46	.45	.44	.44	.44	.42
36	.47	.46	.45	.45	.45	.43
37	.50	.49	.46	.45 $\frac{1}{2}$	.45	.43
38	.53	.49 $\frac{1}{2}$	.48	.47 $\frac{1}{2}$	.47	.44
39	.56	.51	.49 $\frac{1}{2}$	.48	.47	.44
40	.60	.53	.50	.49	.48	.45



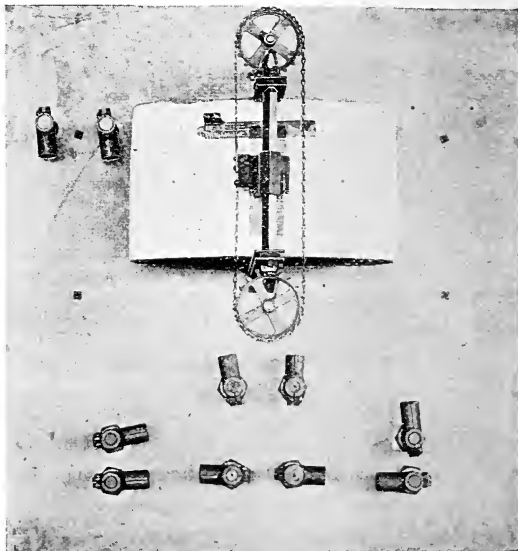
Switchboards.

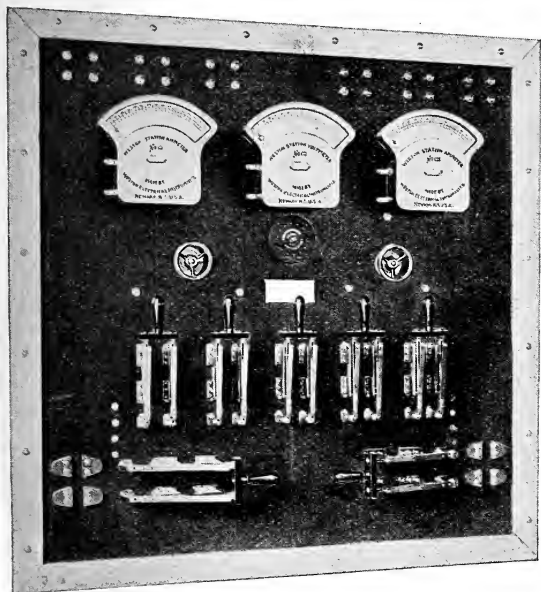
The illustrations on this page show respectively the front and rear of our standard switchboard for one dynamo and one feeder circuit.

Switchboard Front.

We are prepared to furnish switchboards for any number or sizes of dynamos and for any number of feeder circuits.

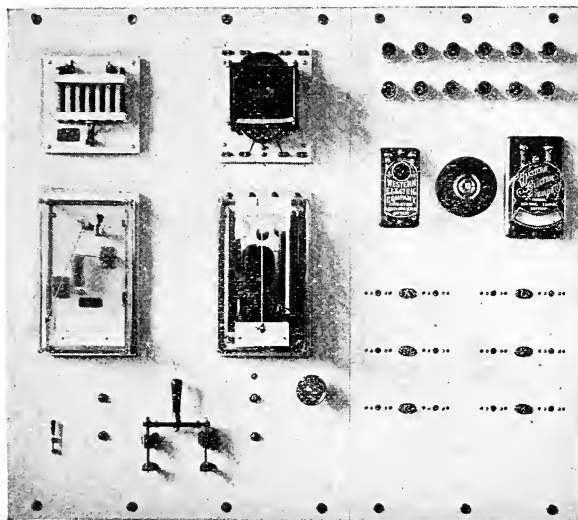
Switchboard Rear.





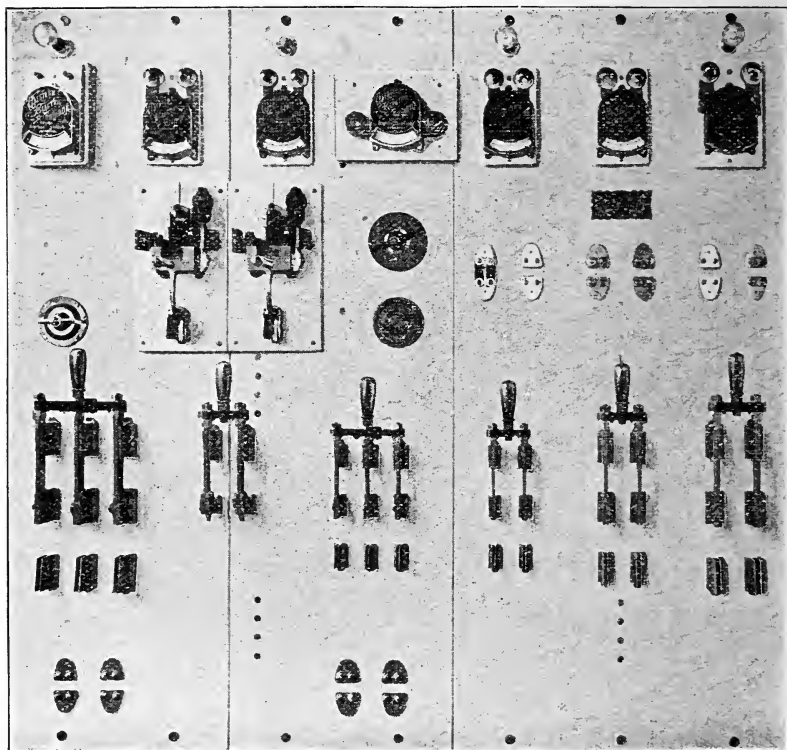
Switchboards.

This illustration shows a switchboard furnished with Type "Q" quick break switches for two dynamos and five line circuits.



This illustration shows a combination switchboard for one incandescent alternator and arc dynamo.

Switchboards.



Combination power and lighting board for two dynamos and four circuits.

Equipped with Western Electric ammeters and volt meters, and Western Electric type "E" switches.

It is almost impossible to standardize switchboards. We build switchboards in accordance with specifications and conditions.



Switchboard Clock.

This is an American Eight Day Engine Lever Clock in a dust-proof case, designed especially for use on the Switchboard, where an accurate record of time is a valuable accessory to the proper running of a station.

The second hand is placed in the same position as is usually found on a watch. The movement can be easily taken from the dust-proof case. The porcelain dial is without feet and consequently is not liable to fracture. The regulator is of the micrometer pattern and allows of the closest regulation. The escapement is of the pattern known as the quick beat and is in a separate frame.

The movement is of the three plate type which permits of the removal of the main spring without disturbing the train or escapement.

The construction of the clock and working proportions of the movement from the main wheel to the balance wheel compare favorably with the very highest grade of English or French clocks.

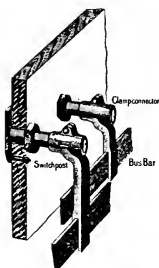
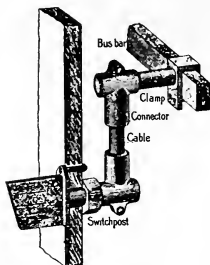
The particular mounting of the main spring produces a uniform maintenance of the arc of vibration and the deviation from absolute correct time can be no greater on the eighth day than on the first, and after once adjusting the clock the result is great accuracy as a time-keeper.

Watches carried by persons in a dynamo room are always subject to magnetism and a correct timepiece located on the switch board will be a useful article in any electric light plant.

The dimensions of the Eight Day Switchboard Clock.

Width of back.....	5 $\frac{3}{4}$ inches.
Length of back.....	7 "
Depth.....	3 $\frac{1}{4}$ "
Diameter of clock.....	5 $\frac{1}{4}$ "

Crinoid 25571 Switchboard clock, nickel finish . \$10.00



Switchboard Fittings.

Clamps for Inside Bus Bars.

The connections from switches to bus bars are made by using the inside bus bar clamps.

The stud extends back so that the connector on it is in line with the connector on the switch post; no bend is necessary on the cable.

Clamps for $\frac{3}{8} \times 1\frac{1}{2}$ in., $\frac{1}{2} \times 1\frac{1}{2}$ in. and 1×2 in. bus bars can be furnished promptly.

Connectors, switches and clamps are all numbered alike for capacity.

No. 1 being for	50 amperes.	No. 6 being for	600 amperes.
No. 2	75 "	No. 7	800 "
No. 3	150 "	No. 8	1200 "
No. 4	300 "	No. 9	2000 "
No. 5	450 "		

Prices quoted on application.

Clamp Connectors.

When space back of switchboard is very limited we make the connector on the switch post and clamp all one piece.

This style made to order. In writing for prices give full information as to size and the quantity.

Connectors, with Set Screws, for Heavy Conductors.



Nos. 65161 to 65171.

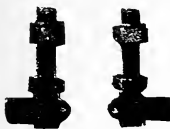


Nos. 65173 to 67183.

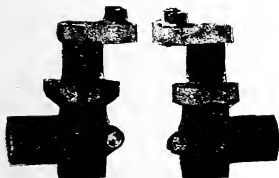


Nos. 67361 to 67371.

<i>Chime</i>	65161	"Tee" Connector for $\frac{1}{2}$ inch rod, each.	.25
<i>Chimera</i>	65163	" " " " " "	.40
<i>Chimerical</i>	65165	" " " " " "	1.00
<i>Chemistry</i>	65167	" " " " " "	1.40
<i>Chip</i>	65169	" " " " " "	1.50
<i>Chipped</i>	65171	" " " " " "	1.75
<i>Chipping</i>	65173	Elbow	.26
<i>Chirp</i>	65175	" " " " " "	.40
<i>Chisled</i>	65177	" " " " " "	.70
<i>Chicalrous</i>	65179	" " " " " "	.80
<i>Chivalry</i>	65181	" " " " " "	.90
<i>Chocolate</i>	65183	" " " " " "	1.40
<i>Choice</i>	67361	Straight	.20
<i>Choir</i>	67363	" " " " " "	.30
<i>Choke</i>	67365	" " " " " "	.65
<i>Choking</i>	67367	" " " " " "	.75
<i>Choler</i>	67369	" " " " " "	.85
<i>Cholera</i>	67371	" " " " " "	1.30



Fuse Posts, No. 1, 2, 3 and 4.



Fuse Posts No. 5, 6 and 7.

Switch Board Fittings.—Continued

Fuse Posts.

The illustration shows our fuse posts. The smaller size are equipped for one fuse, the larger one for two fuses. The posts are cast from a special composition. The conductivity of which is almost the same as that of copper. The connectors are our standard.

The Hexagon slotted cap screw with brass washers can be tightened by either a wrench or a screw driver.

Fuse Posts.

Code Word.	List No.	List Price Each.
<i>Accus</i>	25573 No. 1 25 to 50 amperes.....	\$.080
<i>Arpenser</i>	25574 No. 2 50 to 75 ".....	1.00
<i>Acurgy</i>	25575 No. 3 75 to 150 ".....	1.30
<i>Acknow</i>	25576 No. 4 150 to 300 ".....	1.90
<i>Acknowledge</i>	25577 No. 5 300 to 450 ".....	3.00
<i>Acknowledger</i>	25578 No. 6 450 to 600 ".....	4.00
<i>Acknowledged</i>	25579 No. 7 600 to 800 ".....	6.10

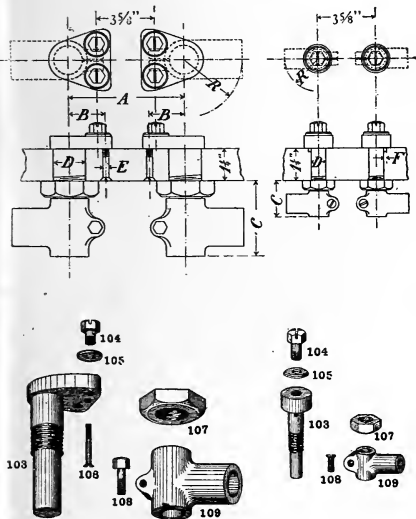
Table of dimensions of fuse posts. Letters referring to diagrams.

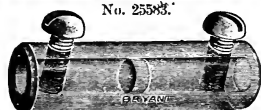
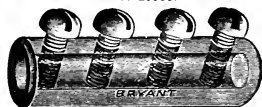
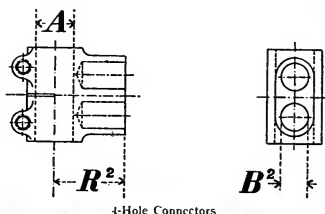
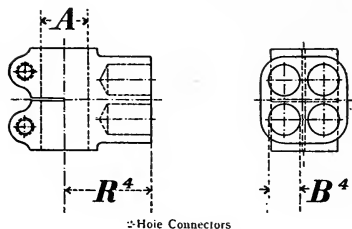
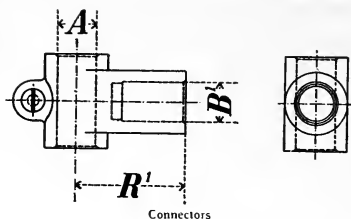
Size of Fuse Post		Dimensions—Inches.						
No.	Amperes	A	B	C	D	E	F	R
1	25-50	.....	.....	1 1/2	.....	.....	.....	.....
2	50-75	.....	.....	1 1/2	.....	.....	.....	.....
3	75-150	.....	.....	1 1/2	.....	.....	.....	.....
4	150-300	.....	.....	2 1/4	.....	.....	.....	.....
5	300-450	5 1/2	1 1/2	2 1/2	1 + 1/4	.....	.....	.....
6	450-600	5 1/2	1 1/2	3	1 + 1/4	.....	.....	.....
7	600-800	5 1/2	1 1/2	3 1/2	1 + 1/4	.....	.....	.....

Table giving shop order numbers for parts of fuse posts.

No. on Cut		Name of Part	ORDER NUMBERS ON PARTS FOR							
			Fuse-Post	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7
			Amperes	25-50	50-75	75-150	150-300	300-450	450-600	600-800
103	Fuse Post	1031	1032	1033	1034	1035	1036	1037		
104	Cap Screw	1041	1042	1043	1044	1045	1046	1047		
105	Washer	1051	1052	1053	1054	1055	1056	1057		
106	Screw	1061	1062	1063	1064	1065	1066	1067		
107	Post Nut	1071	1072	1073	1074	1075	1076	1077		
108	Conn'r Screw	1081	1082	1083	1084	1085	1086	1087		
109	Connector	1091	1092	1093	1094	1095	1096	1097		

Prices on Parts Quoted on Application.





Switchboard Fittings.—Continued.

Connectors.

All our connectors for switches (with back connections) and fuse-posts are of the same swivel type, clamping around a stud, allowing the circuit wires to be connected from any direction.

The standard connectors are for one cable entering the connector in a direction vertical to the stud.

Larger sizes of connectors are also made for two or four cables. Compare tables of dimensions No. 18 and No. 19.

We also manufacture "vertical" connectors for cables entering the connector in a direction parallel with the stud, and T-Connectors.

Dimensions of Standard Connectors.

Table of Dimensions No. 18.

To Fit Stud on Switch No.	Dimensions—Inches.								
	1	1	3	4	5	6	7	8	9
A	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
B1	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
B1, maximum	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
R1	1	1	1	1	2	2	2	3	4

NOTE.—For Q No. 2 Switch use No. 1 Connector.

Order numbers for these connectors are found under parts of switches or fuse-points.

Dimensions of Special Connectors.

Table of Dimensions No. 18.

To Fit Stud on Switch No.	Order No.	7	8	9
		2627	2628	2629
Dimensions—In.	A	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
"	B2	$\frac{1}{2}$ (max. 1)	1 (max. 1)	$\frac{1}{2}$
"	R2	2	2	3

Table of Dimensions No. 19.

To Fit Stud on Switch No.	Order No.	8	9
		2645	2649
Dimensions—Inches	A	$\frac{1}{2}$	$\frac{1}{2}$
"	B4	$\frac{1}{2}$	$\frac{1}{2}$
"	R4	2	2

Wire Connectors.

Straight Connectors.

Code Word	List No.	B. E. No.	For No. 8 B. & S. Gauge Wire...	List Price
Alcinar	25580	315	"	\$0.07
Armita	25581	316	" 10 "	.07
Arne	25582	317	" 12 or 14 "	.06
Arckhill	25583	313	" 4-inch, for No. 6 Wire...	.07
Arold	25584	314	" 4 " "	.08

Brooklyn Connector.

When necessary to solder one end, the dividing wall prevents the melted solder from running through.

Arclough	25585	310	$\frac{1}{2}$ -inch Both Ends, for No. 6 Wire.	.06
Arclough	25586	311	One End $\frac{1}{2}$ -inch for No. 4 Wire, Other End $\frac{1}{2}$ -inch for No. 6 Wire.	.07
Arclough	25587	312	$\frac{1}{2}$ -inch Both Ends, for No. 4 Wire.	.07

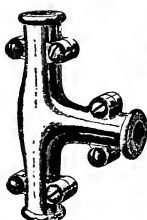
Switchboard Fittings—(Continued).



No. 8977.

Clamp Connections for Heavy Conductors.

Code Word.	List No.	List Price
<i>Chouder</i>	8977	Cross Connection for $\frac{3}{8}$ inch rod, each..... \$2.20



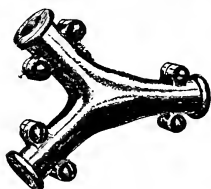
No. 8978.



No. 8979.

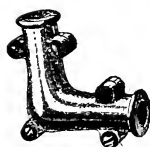
<i>Chrismal</i>	8978	T Connection for $\frac{3}{8}$ inch rod, each..... 1.45
-----------------	------	---

<i>Chrismath</i>	8979	Straight Connection for $\frac{3}{8}$ inch rod, each..... 1.10
------------------	------	--

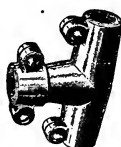


No. 8980.

<i>Chrism</i>	8980	Y Connection for $\frac{3}{8}$ inch rod, each..... 1.15
---------------	------	---



No. 8981.



No. 8982.

<i>Cemented</i>	8981	L Connection for $\frac{3}{8}$ inch rod, each..... 1.25
-----------------	------	---

<i>Cementing</i>	8982	T Connection for $\frac{3}{8}$ inch rod, each..... 1.20
------------------	------	---

Wire Terminals.



Nos. 1804 to 1812.

<i>Cheaply</i>	1804	For No. 12 wire, B. & S. G., per 100..... 4.00
<i>Cheapness</i>	1805	" 10 " " " "..... 4.50
<i>Cheating</i>	1806	" 8 " " " "..... 5.00
<i>Checker</i>	1807	" 6 " " " "..... 6.00
<i>Checkmate</i>	1808	" 4 " " " "..... 7.00
<i>Cheerful</i>	1809	" 3 " " " "..... 7.50
<i>Cheerfully</i>	1810	" 2 " " " "..... 8.00
<i>Cheerily</i>	1811	" 1 " " " "..... 9.00
<i>Cheering</i>	1812	" 0 " " " "..... 11.00

Switchboard Fittings—(Continued).



No. 1813.

Wire Holders.

Code Word.	List No.		List Price.
<i>Correct</i>	1813	1 to 25 amperes, per pair.....	\$0.50
<i>Cosmetic</i>	1814	25 to 100 " "	1.00
<i>Cosmic</i>	1815	100 to 300 " "	2.00
<i>Cossack</i>	1816	400 " "	3.00
<i>Costing</i>	1817	500 " "	4.00
<i>Couch</i>	1818	800 " "	5.00
<i>Couchant</i>	1819	800 " "	6.00
<i>Cough</i>	1820	1000 " "	8.00

Bus Bar Stands.

<i>Concave</i>	1821	$\frac{1}{2}$ inch, each.....	.50
<i>Covert</i>	1822	$\frac{3}{4}$ " " .....	.75
<i>Covertly</i>	1823	$\frac{1}{2}$ " "	1.00
<i>Coverture</i>	1824	$\frac{3}{4}$ " "	1.25
<i>Coret</i>	1825	$\frac{1}{2}$ " "	1.50
<i>Coreted</i>	1826	1 " "	2.00
<i>Coreting</i>	1827	$1\frac{1}{2}$ " "	2.50
<i>Coretous</i>	1828	$1\frac{1}{2}$ " "	3.00

We make the above in the following lengths: 1 inch, $1\frac{1}{2}$ inch, 3 inch and 4 inch. SPECIFY LENGTH.

Bus Bar Connections.

Solid.

<i>Corey</i>	1829	$\frac{1}{2}$ inch, each.....	.40
<i>Coward</i>	1830	$\frac{1}{2}$ " " .....	.60
<i>Cowardice</i>	1831	$\frac{3}{4}$ " " .....	.60
<i>Cowardly</i>	1832	$\frac{1}{2}$ " " .....	.80
<i>Crab</i>	1833	$\frac{3}{4}$ " "	1.00
<i>Crabapple</i>	1834	$\frac{1}{2}$ " "	1.25
<i>Crabbed</i>	1835	1 " "	1.50
<i>Crabbedly</i>	1836	$1\frac{1}{2}$ " "	2.00
<i>Crabby</i>	1837	$1\frac{1}{2}$ " "	3.00

Split.

<i>Crack</i>	1838	$\frac{1}{2}$ inch, each.....	.40
<i>Cracked</i>	1839	$\frac{1}{2}$ " " .....	.60
<i>Cracker</i>	1840	$\frac{3}{4}$ " " .....	.60
<i>Cracking</i>	1841	$\frac{1}{2}$ " " .....	.80
<i>Crackle</i>	1842	$\frac{3}{4}$ " "	1.00
<i>Crackling</i>	1843	$\frac{1}{2}$ " "	1.25
<i>Cradle</i>	1844	1 " "	1.50
<i>Cradled</i>	1849	$1\frac{1}{2}$ " "	2.00
<i>Cradling</i>	1850	$1\frac{1}{2}$ " "	3.00



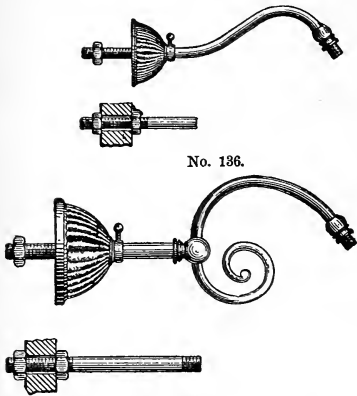
No. 1829.



No. 1838.

Switchboard Fittings—(Continued).

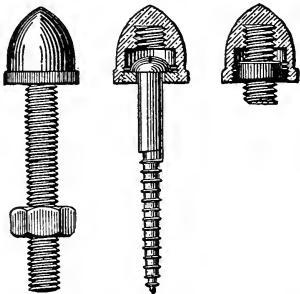
Switchboard Brackets.



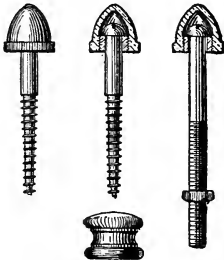
No. 136.

No. 137.

Code Word.	List No.	List Price.
<i>Jumping</i>	136 1 Light, each	\$1.25
<i>Junction</i>	137 1 Light, each	1.50
<i>Juncture</i>	138 2 " "	2.50



No. 142.



Nos. 143 to 145.

Switchboard Bolts.

<i>Kirk</i>	141 Machine Screw, complete, each.....	.40
<i>Kirkman</i>	142 Wood " " " .....	.30

<i>Kirtle</i>	143 Wood Screw, complete, each.....	.20
<i>Kirtled</i>	144 Machine " " " .....	.20
<i>Kiss</i>	145 Special Cap to fit Nos. 143 and 144, each.....	.20



No. 139.

<i>Jungle</i>	139 Voltmeter Bolt, each.....	.20
---------------	-------------------------------	-----

ARC SUPPLIES.

Miscellaneous.

Current Direction Indicator.

This instrument is placed directly in an arc circuit and visually indicates or shows the direction of the current, if desired, it can be made to close a local battery circuit so as to ring an alarm bell and trip an annunciator needle whenever the current flows in the wrong direction, the annunciator showing the number of the circuit that is mis-connected.

The Indicator is well adapted for use upon arc circuits of both high and low tension systems of any manufacture.



No. 213.

Code Word.
Eulogy

List No.

213 Each \$20.00

List Price.



No. 214

Arc Ammeter.

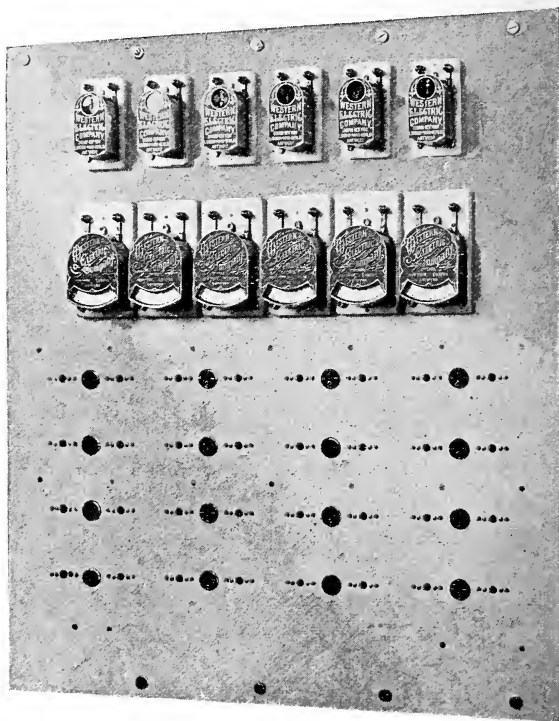
This Ammeter is designed for use as a station instrument. It is well protected by a sealed case; has no springs or permanent magnets; is dead beat and accurate within one per cent.

Eulogize

214 Each..... 18.00

Arc Switchboard.

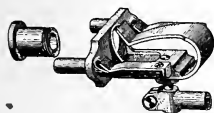
Equipped with Western Electric Instruments.



A Typical Switchboard constructed for six dynamo and ten line circuits. The board is constructed of marble, and for each dynamo is furnished an ammeter and polarity indicator. Only specially selected marble is used for arc boards and the workmanship is thoroughly guaranteed. Specifications for special boards will be furnished on application.

Arc Switchboard Fittings.

Improved Spring Jack.



No. 21350.

This cut represents the latest type of Switchboard Spring Jack for Arc Circuits. The Spring Jack is separable and a bushing screwing through from the face of the board holds the Spring Jack in place and obviates any liability from shock on the face of the board as there are no metal parts of the Jack on the front of the board. The connection to circuit is made by means of a swivel lug and brings the wire against the marble board. When the Spring Jack is in place, with all connections made, it extends from the back of the board but $2\frac{3}{4}$ inches. The contact spring is of phosphor bronze, and extra length is secured by making it the curved form as shown.

Code Word	List No.	List Price Each.
<i>Sarcovent</i>	21350 Spring Jack	\$3.35
<i>Absque</i>	25325 Test Jack .....	.50



No. 25325.

Improved Plugs.

The Safety Plug illustrated is of the sheathing type and renders it impossible to obtain a shock should the circuit be opened accidentally at the switchboard while making a change of circuits when the dynamo is in operation. The insulation is of hard rubber and of sufficient strength to stand any ordinary service. These plugs are made in two sizes, one for main circuit and one for transfer circuit.

<i>Sarcoolla</i>	21351 Transfer Plug	4.00
<i>Sarcoode</i>	21352 Main Plug	5.00



No. 21351.



No. 21352.

Old Style Plugs.



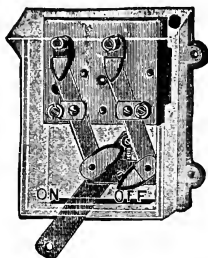
No. 1176.

<i>Downing</i>	1176 Disconnecting Plug, each	1.00
----------------	------------------------------------	------



No. 1177.

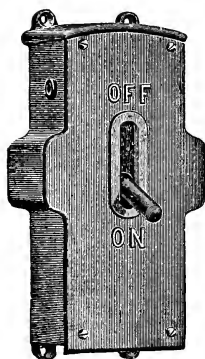
<i>Dug</i>	1177 Main Plug, each	1.50
------------	----------------------------	------



No. 935.

Cleveland Arc Cut-out.

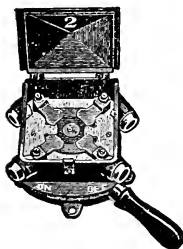
Code Word.	List No.	List Price.
<i>Editor</i>	935 Each	\$2.50



No. 2926.

Western Electric Building Switch.

<i>Edmond</i>	2926 Each	11.25
---------------	-----------------	-------

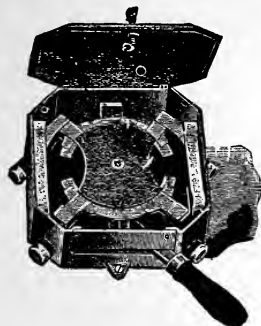


No. 1115.

Hope Arc Cut-out.

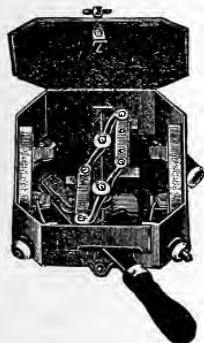
<i>Damp</i>	1115 Slate base, each	4.70
<i>Dampness</i>	1116 Porcelain base, each	6.00
<i>Damsel</i>	1117 " " cam movement, each	6.00

Hope Arc Cut-out—(Continued).



No. 1118.

Code Word.	List No.	List Price.
<i>Dance</i>	1118 Extra large, for station use, each.....	\$20.00



No. 1119.

<i>Dancer</i>	1119 For Alternating Currents, each.....	18.00
<i>Dancing</i>	1120 " " " with fuse, each.....	18.00

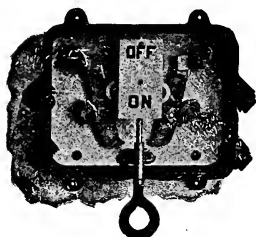


No. 1127.

<i>Dandify</i>	1127 For Alternating Currents, Bi-pole, each.....	14.40
----------------	---	-------



No. 934



No. 21079.



No. 21080.



No. 21081.

Bryant-Cleveland Arc Cut-Out.

This Arc Cut-Out is made entirely of porcelain and metal, consequently incombustible and moisture-proof.

The action of the commutator at the point of breaking or closing the circuit is entirely uncontrolled by the handle.

The binding posts are the well-known K. W. style, very secure and easy to wire.

Code Word.	List No.	List Price. Each.
<i>Edition</i>	934 Each.....	\$3.00

F. W. Large Arc Circuit Cut-Out.

In order to comply with the requirements of the fire underwriters an absolute cut-out must be placed wherever arc wires enter or leave a building. The cut-out here shown is of an improved type, having been adopted by many of the large electric companies. It is fire-proof, all the mechanism being mounted on porcelain, while the switching action is instantaneous in both directions, the operator having no control over it. It is, therefore, impossible for the contacts to remain in any position but that shown by the indicator "ON" or "OFF." This cut-out is designed for heavy service, and will operate without arcing on from one to fifty lamps.

<i>Saucebur</i>	21079 Each.....	7.00
-----------------	-----------------	------

F. W. Small Arc Circuit Cut-Out.

This Cut-Out is intended for light service, such as from one to five lamps. It is designed for use in places where it would be inconvenient to install the larger size. The switching action is performed by turning a key which compresses a spring, then suddenly releasing it, causing the central porcelain disc to make one-quarter revolution but always in the same direction. This instantly switches the current off and on. This cut-out is admirably adapted for use in iron lamp posts where the cables come up from below.

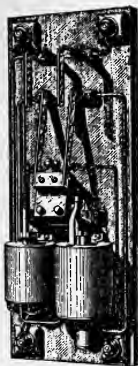
<i>Saucepun</i>	21080 Each.....	7.00
-----------------	-----------------	------

Lightning Arresters for Arc Circuits.

Where arc circuits enter or leave the station it is necessary to place lightning arresters in the several branches, in order to protect the dynamos and apparatus in the station during heavy thunder storms so prevalent in some parts of this country. The lightning arrester here shown affords a path for the lightning discharge to earth, and should an arc from any cause follow the discharge, it is broken.

<i>Saucep</i>	21081 Each.....	10.00
---------------	-----------------	-------

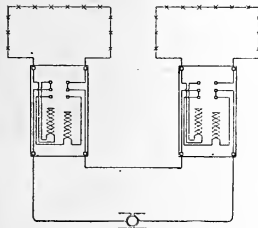
Automatic Circuit Controlling Switch.



This switch is designed more especially for use with series arc or other high potential circuits where it is desired to cut out and entirely insulate a line when not in actual service. It is entirely automatic in its action and never offers any appreciable resistance to the passage of current through itself. The construction is such that when current is supplied to its terminals that current will be established in the line in case the line is in proper working condition; if the line should be open the switch will again insulate the line and the current will flow directly through the switch encountering there only the resistance of a small solenoid wound with heavy wire. If at any time during the operation of the line an accident should occur causing the circuit to be opened, the switch will immediately insulate the line and provide a path for the current through itself. Before remaining permanently in that position, however, it will make a trial stroke so that if the continuity of the line has been re-established (as for instance by the dropping together of carbons in a lamp whose rod had become stuck) that current will be re-established in the line as before.

The diagrams of circuits shows the usual way of connecting the switches to the lamp circuits—any number of switches may be used on a line, each one controlling a given portion. A single switch is capable of controlling a circuit of any number of lamps up to fifty.

Prices on application.



Electric Clock Switch.

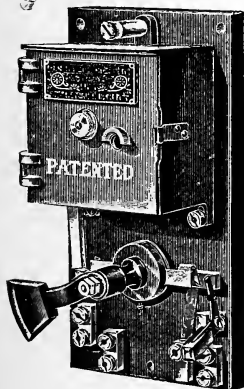
This Switch was designed for use in offices, show windows, hotels, etc., or on any direct or alternating current circuit, not exceeding 125 volts of pressure.

It operates both to turn on the current at whatever hour of the day the dial is set for, and later on to cut it off again at any desired time.

It is not a magnetic, but a mechanical switch, operated by means of a clock movement, which is wound when the switch is set.

The clock movement is protected by a neat Iron Japanned case, with hinged door. The switch part is free, and readily accessible. A case, enclosing the entire switch, can be furnished if desired. All the parts are insulated in the best manner, and the work is strong and substantial.

Mounted on slate base, capacity 10 amperes.



No. 23078.

Code Word.

Silurian

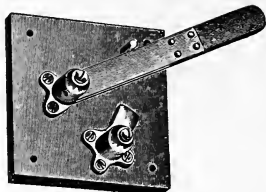
List No.

23078 Electric Clock Switch

Price List.

Each.

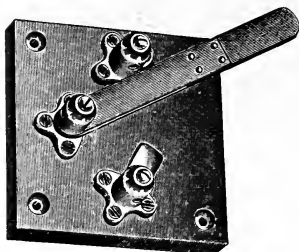
\$14.40



No. 21048.

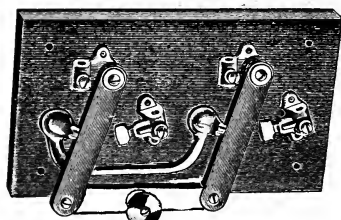
Arc Light Line Switches.

Code Word.	List No.	List Price. Each.
<i>Sateor</i>	21048 2-Point	\$2.00
	Mounted on Slate.	



No. 21049.

<i>Sam</i>	21049 3-Point	2.50
	Mounted on Slate.	

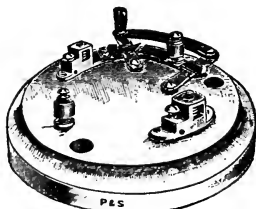


No. 21050.

Isolating Switch for Arc Circuit.

A simple and reliable Switch adapted for currents below 30 amperes, and which operates to completely isolate or remove the lamps from all connections with a circuit made with a circuit. Made with slate base and bronze terminals.

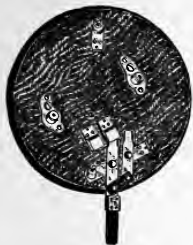
<i>Samaru</i>	21050 Each.....	3.50
---------------	-----------------	------



No. 21053.

P. & S. China Hanging Board.

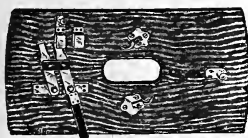
<i>Samaroid</i>	21053 Base, only .....	.90
<i>Sammarra</i>	21054 " with old brass work refitted.....	1.35



No. 2850.

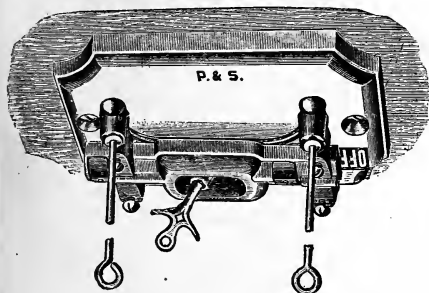
Arc Cut-Out Boards.

Code Word	List No.		List Price. Each.
<i>Earldon</i>	2850	Round, wood, each	\$3.00
<i>Abstainer</i>	25326	" slate, "	3.70



No. 2851.

<i>Earl</i>	2851	Oblong, wood, each	2.80
<i>Abstentious</i>	25327	" slate, "	3.70



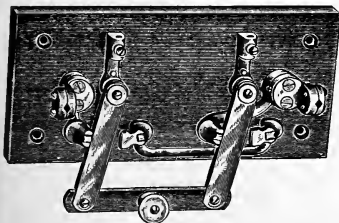
No. 8851.

China Arc Hanging Board.

No. 8851, for series circuits, has automatic device which closes circuit if the lamp is disconnected when the switch is on.

No. 8852 is for incandescent circuits, and the switch is also double pole and breaks in four places.

Code Word.	List No.	List Price. Each.
<i>Dating</i>	8851	For Constant Current, Series Circuit..... 2.50
<i>Dative</i>	8852	For Constant Potential, Multiple Circuits 2.50



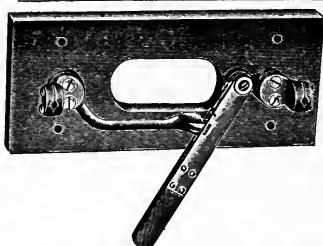
No. 21051.

Stationary Lamp Hanger.

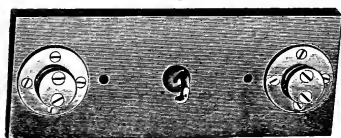
With Isolating Switch.

By the use of this Hanger the lamp can be entirely disconnected from the circuit, and not merely shunted, as is the case with single pole switches. They are made for either wide or narrow frame lamps. Mounted on slate.

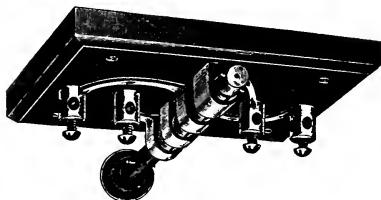
<i>Sumare</i>	21051	Narrow frame.....	4.50
<i>Samuritan</i>	21052	Wide "	5.25



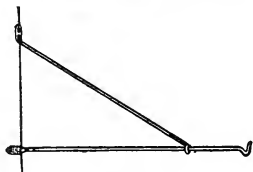
No. 21058.



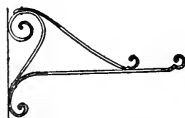
No. 21060.



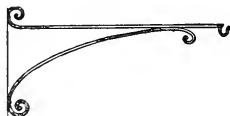
No. 21062.



No. 8705.



No. 8706.



No. 8707.

Stationary Hanger Boards.—(Continued.)

Code Word.	List No.	List Price. Each.
<i>Samster</i>	21058 For Narrow Frame Lamps	\$2.75
<i>Sameth</i>	21059 For Wide Frame Lamps.....	3.20
	Mounted on Slate.	
	For either double or single lamps.	

Hanger Boards.

For Constant Potential Lamps.

<i>Samira</i>	21060 With Binding Terminals.....	2.10
<i>Samill</i>	21061 With Hook Terminals.....	2.10
	Mounted on Slate.	

Kelsh Arc Lamp Hanger Board.

<i>Samist</i>	21062 Each	3.00
	Mounted on Marbleized Slate.	

Arc Lamp Hooks.

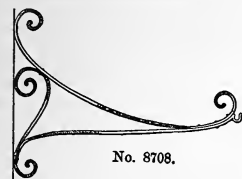
<i>Copiousness</i>	8705 Plain, wrought iron, each	1.50
--------------------	--------------------------------------	------

<i>Copist</i>	8706 Ornamental, each	
---------------	-----------------------------	--

<i>Copiant</i>	8707 Ornamental, each	
----------------	-----------------------------	--

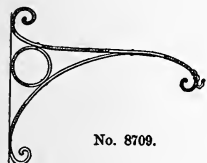
Prices on Ornamental Brackets quoted on application.

Arc Lamp Hooks—(Continued).



No. 8708.

Code Word.	List No.	List Price.
<i>Copperish</i>	8708	Ornamental, each.....



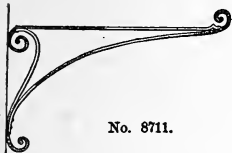
No. 8709.

<i>Coprice</i>	8709	Ornamental, each.....
----------------	------	-----------------------



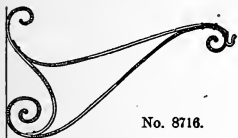
No. 8710.

<i>Copae</i>	8710	Ornamental, each.....
--------------	------	-----------------------



No. 8711.

<i>Copula</i>	8711	Ornamental, each.....
---------------	------	-----------------------



No. 8716.

<i>Coppy</i>	8716	Ornamental, each.....
--------------	------	-----------------------



No. 8717.

<i>Copybook</i>	8717	Ornamental, each.....
-----------------	------	-----------------------

Prices on Ornamental Brackets quoted on application.



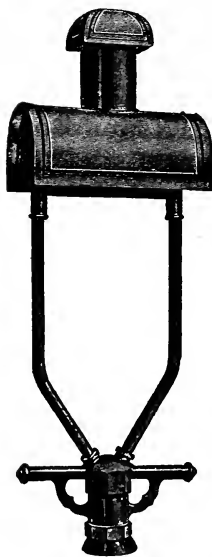
No. 21636.

Lamp Hoods.

These Hoods are made of heavy galvanized iron, japanned, supported by iron frames, with a cast iron base, making the whole very strong and substantial.

The lamp is suspended from a hanging board provided with a hand cut-out, and firmly fastened inside the Hood.

Code Word.	List No.	List Price. Each.
<i>Scoria</i>	21636 Each	\$18.00



No. 2001.

<i>Ease</i>	2001 Each	28.00
-------------	-----------------	-------



No. 2002.

Lamp Hoods—(Continued)

Code Word.	List No.	List Price.
<i>Easel</i>	2002 Each.....	\$25.00



No 2003.

<i>Easily</i>	2003 Each.....	20.00
---------------	-----------------------	--------------



No. 2886.

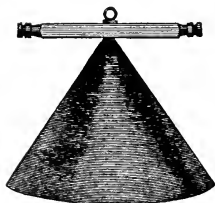
Lamp Hoods.—(Continued.)

Code Word.	List No.	List Price. Each.
<i>Basiness</i>	2886 Complete	\$9.00
<i>Salutatorian</i>	21029 Hood only	3.50
<i>Salutatory</i>	21030 Side Rods and Bracket	3.50
<i>Salute</i>	21031 Cut-Out Board	2.00



No. 2887.

<i>Ensement</i>	2887 Complete with Cut-Out Board	5.00
<i>Saluter</i>	21032 Hood only	3.00



No. 2888.

<i>Ensing</i>	2888 Complete with Cut-Out Board	4.00
---------------	--	------

Domestic Carbons.

Solid.

High Tension Series Arc.

Specify when ordering whether moulded or forced.

Code Word.	List No.	Inches.	List Price. Per 1000.
<i>Salter</i>	20969	7-16 x 12, plain.....	\$13.50
<i>Saltarn</i>	20970	7-16 x 12, coppered.....	13.50
<i>Saltfish</i>	20971	1-2 x 12, plain.....	14.00
<i>Saltfast</i>	20972	1-2 x 12, coppered.....	14.00
<i>Saltgauge</i>	20973	5-8 x 12, plain.....	19.50
<i>Saltgreen</i>	20974	5-8 x 12, coppered.....	20.50
<i>Saltier</i>	20975	9-16 x 14, plain.....	20.50
<i>Saltierise</i>	20976	9-16 x 14, coppered.....	22.00
<i>Saltigrade</i>	20977	5-8 x 14, plain.....	21.70
<i>Saltimbaco</i>	20978	5-8 x 14, coppered.....	23.70
<i>Saltling</i>	20979	7-16 x 7, plain.....	6.75
<i>Saltive</i>	20980	7-16 x 7, coppered.....	6.75
<i>Saltish</i>	20981	1-2 x 7, plain.....	7.00
<i>Saltishly</i>	20982	1-2 x 7, coppered.....	7.00
<i>Saltishness</i>	20983	5-8 x 7, plain.....	11.00
<i>Saltjunk</i>	20984	5-8 x 7, coppered.....	12.00
<i>Saltpeter</i>	20985	1-2 x 9, plain.....	9.50
<i>Saltless</i>	20986	1-2 x 9, coppered.....	9.50
<i>Saltlick</i>	20987	5-8 x 9, plain.....	13.00
<i>Saltly</i>	20988	5-8 x 9, coppered.....	13.70

Coppered Solid Forced.

For Low Tension Series Arc.

<i>Saltmarsh</i>	20989	7-16 x 12.....	13.50
<i>Saltmine</i>	20990	1-2 x 12.....	14.00
<i>Saltness</i>	20991	5-8 x 12.....	20.50
<i>Saltpan</i>	20992	7-16 x 7.....	6.75
<i>Saltpen</i>	20993	1-2 x 7.....	7.00
<i>Saltperlate</i>	20994	5-8 x 7.....	12.00

For Constant Potential Lamps.

Uppers—Soft Cored.

<i>Sault</i>	21091	5-16 x 7 1/2.....	9.50
<i>Saunacingbell</i>	21092	3-8 x 7 1/2.....	12.00
<i>Saunders</i>	21093	7-16 x 7 1/2.....	13.50
<i>Saundersblue</i>	21094	1-2 x 7 1/2.....	16.50
<i>Saunter</i>	21095	9-16 x 7 1/2.....	17.50
<i>Saunterer</i>	21096	5-8 x 7 1/2.....	24.00
<i>Saur</i>	21097	5-8 x 8.....	25.50
<i>Sauria</i>	21098	11-16 x 8.....	34.00
<i>Saurian</i>	21099	5-16 x 10.....	13.00
<i>Sauroid</i>	21100	3-8 x 10.....	16.50
<i>Saurophagus</i>	21101	7-16 x 10.....	18.00
<i>Saurg</i>	21102	1-2 x 10.....	22.00
<i>Sausage</i>	21103	9-16 x 10.....	24.00
<i>Saussurite</i>	21104	5-8 x 10.....	32.00
<i>Sauterelle</i>	21105	11-16 x 10.....	38.00





Domestic Carbons.—(Continued.)

For Constant Potential Lamps.

Uppers—Soft Cored.

Code Word.	List No.	List Price, Per 1000.
<i>Sautern</i>	21106 23-32 x 10.....	40.00
<i>Saucegarde</i>	21107 5-16 x 12.....	15.00
<i>Savable</i>	21108 3-8 x 12.....	20.00
<i>Savacan</i>	21109 7-16 x 12.....	22.00
<i>Savage</i>	21110 15-32 x 12.....	24.00
<i>Savagely</i>	21111 1-2 x 12.....	26.00
<i>Savageness</i>	21112 9-16 x 12.....	28.00
<i>Savagery</i>	21113 5-8 x 12.....	38.00
<i>Savagism</i>	21114 1-2 x 14.....	30.00
<i>Savanna</i>	21115 9-16 x 14.....	33.00
<i>Savant</i>	21116 5-8 x 14.....	44.00
<i>Save</i>	21117 11-16 x 14.....	51.00
<i>Saveall</i>	21118 3-4 x 14.....	58.00

Lowers—Solid.

<i>Savoley</i>	21119 5-16 x 6.....	6.50
<i>Saver</i>	21120 3-8 x 6.....	8.50
<i>Savin</i>	21121 7-16 x 6.....	9.50
<i>Saving</i>	21122 1-2 x 6.....	12.00
<i>Savingly</i>	21123 7-16 x 7.....	11.00
<i>Savingness</i>	21124 1-2 x 7.....	14.00
<i>Savingsbank</i>	21125 9-16 x 7.....	15.00
<i>Savor</i>	21126 5-8 x 7.....	20.00
<i>Savorily</i>	21127 5-16 x 7 1-2.....	10.00
<i>Savoriness</i>	21128 3-8 x 7 1-2.....	11.00
<i>Savorless</i>	21129 7-16 x 7 1-2.....	12.00
<i>Savorly</i>	21130 1-2 x 7 1-2.....	15.00
<i>Savorous</i>	21131 9-16 x 7 1-2.....	16.00
<i>Savory</i>	21132 5-8 x 7 1-2.....	21.50
<i>Savoy</i>	21133 1-2 x 8.....	16.00
<i>Savoyard</i>	21134 5-8 x 8.....	23.00
<i>Savo</i>	21135 5-16 x 9 1-2.....	10.00
<i>Savoie</i>	21136 3-8 x 9 1-2.....	13.50
<i>Sampan</i>	21137 7-16 x 9 1-2.....	15.50
<i>Samphine</i>	21138 1-2 x 9 1-2.....	19.00
<i>Sample</i>	21139 5-16 x 10.....	11.00
<i>Sampler</i>	21140 3-8 x 10.....	14.50
<i>Samshoo</i>	21141 7-16 x 10.....	16.00
<i>Samshu</i>	21142 1-2 x 10.....	20.00
<i>Samson</i>	21143 3-8 x 12.....	17.00
<i>Samsonspost</i>	21144 7-16 x 12.....	19.00
<i>Sanability</i>	21145 15-32 x 12.....	21.00
<i>Sanable</i>	21146 1-2 x 12.....	24.00
<i>Sanableness</i>	21147 17-32 x 12.....	25.00
<i>Sanation</i>	21148 9-16 x 12.....	26.00
<i>Sanative</i>	21149 5-8 x 12.....	34.00



Domestic Carbons.—(Continued.)

High Tension Series Arc Cored.

Uppers—Cored.

Code Word.	List No.	Inches.	List Price. Per 1000.
<i>Sanativeness</i>	21150	7-16 x 12.....	10.00
<i>Sanatory</i>	21151	1-2 x 12.....	10.00
<i>Sanbenito</i>	21152	5-8 x 12.....	13.50
<i>Sanobell</i>	21153	1-2 x 14.....	11.50
<i>Sanctebell</i>	21154	9-16 x 14.....	14.00
<i>Sanctificite</i>	21155	5-8 x 14.....	16.00
<i>Sanctificaton</i>	21156	11-16 x 14.....	18.00
<i>Sanctimonios</i>	21157	3-4 x 14.....	20.00

Special Bottoms—Solid.

<i>Sanctimony</i>	21158	7-16 x 7.....	5.00
<i>Sanction</i>	21159	1-2 x 7.....	5.00
<i>Sanctionary</i>	21160	5-8 x 7.....	6.50
<i>Sanctitude</i>	21161	5-8 x 9.....	8.25
<i>Sanctify</i>	21162	3-8 x 10.....	7.25
<i>Sanctura</i>	21163	1-2 x 10.....	8.25
<i>Sanctus</i>	21164	3-8 x 12.....	8.50
<i>Sand</i>	21165	7-16 x 12.....	9.00
<i>Sanda</i>	21166	15-32 x 12.....	9.50
<i>San</i>	21167	1-2 x 12.....	10.00

“Helios.”

Direct Current Carbons.

Cored.



Millimeters.	Inches.	Price.	Millimeters.	Inches.	Price.
12 x 160	15-32 x 6 5-16	\$14.00	10 x 255	3-8 x 10	\$16.60
15 x 160	19-32 x 6 5-16	18.50	11 x 255	7-16 x 10	18.40
18 x 160	23-32 x 6 5-16	26.00	12 x 255	15-32 x 10	20.00
8 x 190	5-16 x 7 1-2	9.60	13 x 255	1-2 x 10	22.15
10 x 190	3-8 x 7 1-2	12.35	14 x 255	9-16 x 10	24.00
11 x 190	7-16 x 7 1-2	13.75	15 x 255	19-32 x 10	27.50
12 x 190	15-32 x 7 1-2	15.00	16 x 255	5-8 x 10	32.25
13 x 190	1-2 x 7 1-2	16.50	18 x 255	23-32 x 10	40.00
14 x 190	9-16 x 7 1-2	17.85	20 x 255	25-32 x 10	48.00
15 x 190	19-32 x 7 1-2	20.50	25 x 255	1 x 10	70.00
16 x 190	5-8 x 7 1-2	24.00	8 x 305	5-16 x 12	15.40
18 x 190	23-32 x 7 1-2	31.00	10 x 305	3-8 x 12	20.00
13 x 205	1-2 x 8	17.80	11 x 305	7-16 x 12	22.00
16 x 205	5-8 x 8	25.75	12 x 305	15-32 x 12	24.00
18 x 205	23-32 x 8	33.00	13 x 305	1-2 x 12	26.40
12 x 240	15-32 x 9 1-2	19.00	14 x 305	9-16 x 12	28.65
15 x 240	19-32 x 9 1-2	27.00	15 x 305	19-32 x 12	33.00
18 x 240	23-32 x 9 1-2	39.00	16 x 305	5-8 x 12	38.60
8 x 255	5-16 x 10	12.90	18 x 305	23-32 x 12	50.00



Domestic Carbons—(Continued.)

"Helios."—(Continued.)

Direct Current Carbons.

Solid.

Millimeters.	Inches.	Price.	Millimeters.	Inches.	Price.
8 x 180	5-16 x 6 5-16	\$ 7.00	14 x 190	9-16 x 7 1-2	\$16.50
10 x 180	3-8 x 6 5-16	9.25	15 x 190	19-32 x 7 1-2	19.00
12 x 180	15-32 x 6 5-16	11.75	16 x 190	5-8 x 7 1-2	22.00
8 x 150	5-16 x 6	6.50	10 x 205	3-8 x 8	11.60
10 x 150	3-8 x 6	8.05	12 x 205	15-32 x 8	15.00
11 x 150	7-16 x 6	9.75	13 x 205	1-2 x 8	16.00
12 x 150	15-32 x 6	11.00	8 x 240	5-16 x 9 1-2	10.40
13 x 150	1-2 x 6	12.00	10 x 240	3-8 x 9 1-2	13.90
14 x 150	9-16 x 6	13.00	11 x 240	7-16 x 9 1-2	15.60
15 x 150	19-32 x 6	15.00	12 x 240	15-32 x 9 1-2	17.60
16 x 150	5-8 x 6	17.35	13 x 240	1-2 x 8 1-2	19.10
11 x 180	7-16 x 7	11.70	14 x 240	9-16 x 9 1-2	20.80
13 x 180	1-2 x 7	14.35	15 x 240	19-32 x 9 1-2	24.00
14 x 180	9-16 x 7	15.65	16 x 240	5-8 x 9 1-2	27.75
15 x 180	19-32 x 7	18.00	10 x 255	3-8 x 10	14.70
16 x 180	5-8 x 7	20.85	12 x 255	15-32 x 10	18.70
8 x 190	5-16 x 7 1-2	8.25	13 x 255	1-2 x 10	20.00
10 x 190	3-8 x 7 1-2	11.00	15 x 255	19-32 x 10	25.50
11 x 190	7-16 x 7 1-2	12.35	16 x 255	5-8 x 10	29.00
12 x 190	15-32 x 7 1-2	13.90	11 x 305	7-16 x 12	19.50
13 x 190	1-2 x 7 1-2	15.15	13 x 305	1-2 x 12	24.00

Helios Cored Carbons.


Alternating.

Millimeters.	Inches.	Price.	Millimeters.	Inches.	Price.
11 x 240	7-16 x 9 1-2	\$19.00	15 x 150	19-32 x 6	\$18.50
12 x 160	15-32 x 6 5-16	14.00	15 x 160	19-32 x 6 5-16	19.00
12 x 240	15-32 x 9 1-2	20.00	15 x 190	19-32 x 7 1-2	22.50
12 x 280	15-32 x 11	23.50	15 x 205	19-32 x 8	24.00
13 x 150	1-2 x 6	14.25	15 x 240	19-32 x 9 1-2	28.00
13 x 160	1-2 x 6 5-16	15.00	15 x 255	19-32 x 10	29.50
13 x 190	1-2 x 7 1-2	17.50	15 x 280	19-32 x 11	32.00
13 x 205	1-2 x 8	19.00	16 x 190	5-8 x 7 1-2	25.00
13 x 240	1-2 x 9 1-2	22.00	16 x 205	5-8 x 8	27.00
13 x 255	1-2 x 10	23.50	16 x 240	5-8 x 9 1-2	31.00
13 x 280	1-2 x 11	25.50	16 x 255	5-8 x 10	33.00
14 x 190	9-16 x 7 1-2	21.00	20 x 160	25-32 x 6 5-16	30.00
14 x 240	9-16 x 9 1-2	25.50	20 x 240	25-32 x 9 1-2	45.00

Imported Carbons.

"Sun-Schmelzer-Nurnberg."

Cored Carbons for Direct Current.



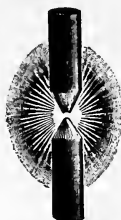
Code Word.	List No.	Diam. in MM.	Diam. in ins.	Length in ins.	List Price Per 1000
<i>Sandmyrtle</i>	21198	11	7-16 x	7 1-2	\$ 14.70
<i>Sandmartin</i>	21199	11	7-16 x	10	19.50
<i>Sandpaper</i>	21200	11	7-16 x	12	23.00
<i>Sandpiper</i>	21201	13	1-2 x	7 1-2	17.20
<i>Sandpride</i>	21202	13	1-2 x	10	23.50
<i>Sandrock</i>	21203	13	1-2 x	12	28.00
<i>Sandsmelt</i>	21204	14	9-16 x	7 1-2	19.00
<i>Sandstar</i>	21205	14	9-16 x	10	25.25
<i>Sandstone</i>	21206	14	9-16 x	12	30.30
<i>Sandstorm</i>	21207	15	19-32 x	6 1-2	18.60
<i>Sandtube</i>	21208	16	5-8 x	7	23.00
<i>Sandwasp</i>	21209	16	5-8 x	7 1-2	25.25
<i>Sandwich</i>	21210	16	5-8 x	10	33.80
<i>Sandworm</i>	21211	16	5-8 x	12	40.50
<i>Sandweert</i>	21212	18	11-16 x	10	43.00

Solid Carbons for Direct Current.

<i>Sandy</i>	21213	8	5-16 x	6	7.00
<i>Sane</i>	21214	8	5-16 x	7 1-2	8.80
<i>Saneness</i>	21215	8	5-16 x	9 1-2	11.20
<i>Sing</i>	21216	10	3-8 x	6	9.25
<i>Sangaroo</i>	21217	10	3-8 x	6 1-2	9.70
<i>Sangfroid</i>	21218	10	3-8 x	7 1-2	11.60
<i>Sanguic</i>	21219	10	3-8 x	9 1-2	14.40
<i>Sangreal</i>	21220	11	7-16 x	6	10.35
<i>Sanguifier</i>	21221	11	7-16 x	7	12.00
<i>Sanguify</i>	21222	11	7-16 x	7 1-2	13.00
<i>Sanguinary</i>	21223	11	7-16 x	8 1-2	14.95
<i>Sanguine</i>	21224	11	7-16 x	9 1-2	16.50
<i>Sanguineless</i>	21225	11	7-16 x	12	20.90
<i>Sanguinely</i>	21226	13	1-2 x	6	12.50
<i>Sanguinity</i>	21227	13	1-2 x	7	14.50
<i>Sanhedrim</i>	21228	13	1-2 x	7 1-2	15.75
<i>Sanicle</i>	21229	13	1-2 x	9 1-2	20.00
<i>Sanies</i>	21230	13	1-2 x	12	25.00
<i>Sanious</i>	21231	14	9-16 x	7	16.10
<i>Sanitarist</i>	21232	16	5-8 x	7	21.25

Cored Carbons for Alternating Current.

<i>Sanitarium</i>	21233	13	1-2 x	7 1-2	21.25
<i>Sanitary</i>	21234	13	1-2 x	9 1-2	27.00
<i>Sanity</i>	21235	15	19-32 x	7 1-2	27.15
<i>Sanjek</i>	21236	15	19-32 x	9 1-2	34.50
<i>Sank</i>	21237	16	5-8 x	9 1-2	39.50



Imported Carbons

Wertheim

Solid

Diam. Inches.	LENGTHS.						
	6 Inch per 1000	7 Inch per 1000	8 Inch per 1000	9 Inch per 1000	10 Inch per 1000	11 Inch per 1000	12 Inch per 1000
$\frac{1}{4}$	\$22.00	\$22.00	\$23.00	\$23.00	\$24.00	\$24.00	\$24.00
$\frac{5}{16}$	23.00	24.00	25.00	26.00	27.00	28.00	28.00
$\frac{3}{8}$	24.00	25.00	26.00	27.00	28.00	29.00	30.00
$\frac{7}{16}$	26.00	27.00	29.00	30.00	32.00	33.00	34.00
$\frac{1}{2}$	27.00	28.00	30.00	31.00	33.00	34.00	36.00
$\frac{11}{16}$	28.00	30.00	31.00	33.00	35.00	36.00	38.00
$\frac{3}{4}$	29.00	31.00	33.00	34.00	36.00	38.00	40.00
$\frac{7}{8}$	32.00	35.00	37.00	40.00	42.00	44.00	47.00

Soft Cored.

Diam. Inches	6 Inch per 1000	7 Inch per 1000	8 Inch per 1000	9 Inch per 1000	10 Inch per 1000	11 Inch per 1000	12 Inch per 1000
$\frac{1}{4}$	\$22.00	\$22.00	\$23.00	\$24.00	\$25.00	\$25.00	\$26.00
$\frac{5}{16}$	24.00	25.00	26.00	27.00	28.00	29.00	30.00
$\frac{3}{8}$	25.00	26.00	27.00	28.00	29.00	30.00	32.00
$\frac{7}{16}$	27.00	28.00	30.00	31.00	33.00	34.00	35.00
$\frac{1}{2}$	28.00	29.00	31.00	32.00	34.00	35.00	37.00
$\frac{11}{16}$	29.00	31.00	32.00	34.00	36.00	38.00	39.00
$\frac{3}{8}$	30.00	32.00	34.00	36.00	38.00	40.00	42.00
$\frac{5}{8}$	33.00	36.00	38.00	41.00	43.00	46.00	48.00
$\frac{11}{16}$	36.00	39.00	42.00	45.00	48.00	50.00	53.00
$\frac{3}{4}$	37.00	40.00	43.00	47.00	50.00	53.00	56.00

For Direct Current Arc Lamps.

Soft Cored Uppers.

Diam-eter	Length.	Per 1000.	Diam-eter	Length	Per 1000	Diam-eter	Length	Per 1000
$\frac{7}{16}$ x	7 $\frac{1}{2}$ in.	\$14.70	$\frac{7}{16}$ x	10 in.	\$19.70	$\frac{7}{16}$ x	12 in.	\$23.40
$\frac{3}{8}$ x	7 $\frac{1}{2}$ "	17.60	$\frac{3}{8}$ x	10 "	23.70	$\frac{3}{8}$ x	12 "	28.15
$\frac{7}{16}$ x	7 $\frac{1}{2}$ "	19.00	$\frac{7}{16}$ x	10 "	25.50	$\frac{7}{16}$ x	12 "	30.50
$\frac{3}{8}$ x	7 $\frac{1}{2}$ "	25.50	$\frac{3}{8}$ x	10 "	34.30	$\frac{3}{8}$ x	12 "	41.00
$\frac{7}{16}$ x	8 "	33.75	$\frac{7}{16}$ x	10 "	43.15			
$\frac{3}{8}$ x	8 "	44.00	$\frac{3}{8}$ x	10 "	53.75			

Solid Lower.

Diam-eter	Length	Per 1000.	Diam-eter	Length.	Per 1000	Diam-eter	Length	Per 1000
$\frac{7}{16}$ x	6 in.	\$7.00	$\frac{7}{16}$ x	7 in.	\$21.60	$\frac{7}{16}$ x	9 $\frac{1}{2}$ in.	\$11.15
$\frac{3}{8}$ x	6 "	9.30	$\frac{3}{8}$ x	7 $\frac{1}{2}$ in.	8.75	$\frac{3}{8}$ x	9 $\frac{1}{2}$ "	14.75
$\frac{7}{16}$ x	6 "	10.40	$\frac{7}{16}$ x	7 $\frac{1}{2}$ "	11.60	$\frac{7}{16}$ x	9 $\frac{1}{2}$ "	16.60
$\frac{3}{8}$ x	6 "	12.80	$\frac{3}{8}$ x	7 $\frac{1}{2}$ "	13.15	$\frac{3}{8}$ x	9 $\frac{1}{2}$ "	20.40
$\frac{7}{16}$ x	7 "	12.15	$\frac{7}{16}$ x	7 $\frac{1}{2}$ "	16.15	$\frac{7}{16}$ x	10 in.	17.70
$\frac{3}{8}$ x	7 "	14.90	$\frac{3}{8}$ x	8 "	15.40	$\frac{3}{8}$ x	10 "	21.50
$\frac{7}{16}$ x	7 "	16.25	$\frac{7}{16}$ x	8 "	17.20			

"Electra" Solid Carbons.

For Enclosed Arc Lamps.

Per 1000			Per 1000		
$\frac{7}{16}$ x	12 in.	\$37.90	$\frac{7}{16}$ x	12 in.	\$30.70
$\frac{3}{8}$ x	10 "	31.55	$\frac{3}{8}$ x	10 "	25.60
$\frac{7}{16}$ x	9 $\frac{1}{2}$ "	30.00	$\frac{7}{16}$ x	9 $\frac{1}{2}$ "	24.30
$\frac{3}{8}$ x	7 $\frac{1}{2}$ "	23.60	$\frac{3}{8}$ x	8 "	15.20
$\frac{7}{16}$ x	6 "	19.00	$\frac{7}{16}$ x	8 $\frac{1}{2}$ "	12.15
$\frac{3}{8}$ x	5 $\frac{1}{2}$ "	17.40	$\frac{3}{8}$ x	12 "	28.20
$\frac{7}{16}$ x	5 "	15.85	$\frac{7}{16}$ x	6 "	45.20
$\frac{3}{8}$ x	4 $\frac{1}{2}$ "	14.30			

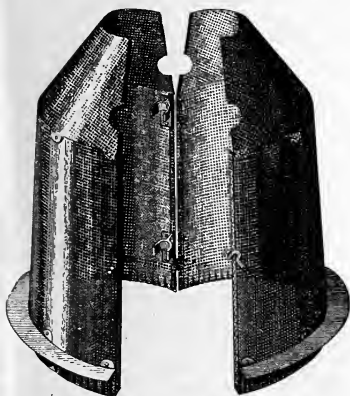


No. 21355.

Spark Arresters.

Arrester No. 21355, made with heavy frame and fine wire gauze. Hinges at back and fitted with latch in front. Standard size 12 inches high; diameter at bottom 10 inches; diameter at top $6\frac{3}{4}$ inches.

Code Word.	List No.	List Price. Each.
<i>Savvalennu</i>	21355 Each	\$4.00



No. 21267.

Spark Arresters.

Perforated.

These Arresters are made of perforated steel sheet, with a rim of thin iron sheet which rests upon the globe of the lamp. They swing open with hinges at the back. Made in three different sizes adapting them for use on Western Electric Arc Lamps. With slight alterations they can be used on Arc Lamps of other standard makes.

Approved by the Board of Underwriters and are especially indorsed as being a perfect safeguard against fire and insects.

They are thoroughly Japanned.

When ordering specify style of lamp on which these Arresters are to be used.

<i>Sapindus</i>	21267 Each	Each. 2.60
-----------------	------------------	---------------

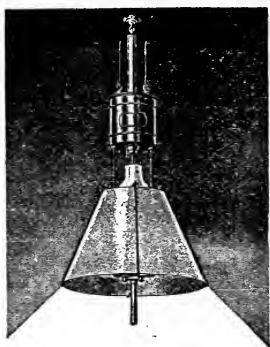


No. 8725.

No. 8726.

Carbon Bags.

<i>Eust</i>	8725 Tin Carbon Case	3.00
<i>Ebenzer</i>	8726 Extra Heavy Leather Carbon Case.....	4.25



No. 21055.

Rae Store Reflector.

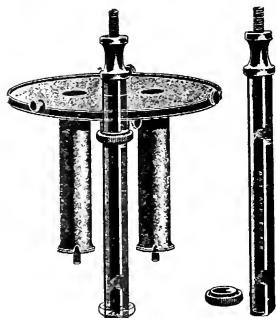
For T.-H. Double Carbon Lamps.

Has a special opal shade which concentrates the bulk of the light on the goods, thus utilizing the light commonly wasted on the ceiling. Combines the intensity of the arc-lamp with a uniform and effective distribution of the light. Also has a clear glass chimney (with opal ventilating top) which serves as a spark arrester, thus making a complete fitting for Arc Lamps in store or show windows.

Does not interfere with the trimming of the lamp.

Approved by New York and Chicago underwriters.

Code Word.	List No.	List Price. Each.
<i>Sambo</i>	21055 Complete.....	\$5.00



No. 21056.

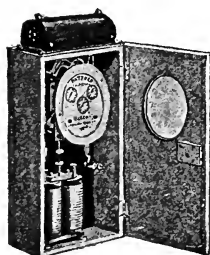
Cutter's Globe Holder.

For T.-H. Arc Lamps.

'A Time Saver and a Globe Saver.'

Takes the place of the sliding tube and set-screw formerly used. It has no tube to dent and crack, and no screw to jam or bend. A quarter turn of the ring allows the globe to be lowered or raised, and another quarter turn removes it entirely. It is simple, strong and positive in its action. The globe is held securely when raised, yet can be instantly lowered without the use of tools.

<i>Sambuke</i>	21056 Rod and Ring complete30
----------------	-----------------------------------	-----



No. 21057.

Pattee Lamp-Hour Recorder.

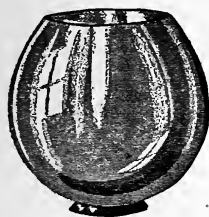
'A Common Sense Meter for Arc Lamps.'

(PATENTED.)

Has a fifteen-day clock movement which is controlled by an electro-magnet so as to keep an accurate count of the burning hours. Needs re-winding but once a month (when the readings are taken). The magnets consume an inappreciable amount of energy and the reading is easily checked by comparison with a watch, so that there can be no complaints from the consumer.

It is simple, well built and practical.

<i>Sambuck</i>	21057 Complete.....	12.00
----------------	---------------------	-------



No 626.

Arc Lamp Globes.

Our Arc Globes are of the best quality of glass and uniform in appearance. They are carefully packed, but shipped only at owner's risk. Two dozen globes are packed in regular size cask, for which we charge \$1.50 extra net.

Clear.

Code Word.	List No.	Diameter. Inches.	Height. Inches.	Top Open- ing. Inches.	Bottom Open- ing. Outside Diam. Inches.	List Price. Per Dozen
<i>Kissed</i>	626	12	12	6	2½	\$11.00
<i>Kissing</i>	627	12	12	8	3½	11.00
<i>Kitchen</i>	628	12	12	8	5	11.00
<i>Kite</i>	629	12	12	7½	3½	11.00
<i>Kitling</i>	630	12	10	8	4	11.00
<i>Kitten</i>	631	12	12	8	5	11.00
<i>Knack</i>	632	12	12	8	2½	11.00
<i>Knackish</i>	633	12	11	9	4½	11.00
<i>Knave</i>	634	11	12	8	4½	11.00
<i>Knavery</i>	635	11	12	8	4½	11.00

Opal.

<i>Knarish</i>	636	12	12	6	2½	12.00
<i>Knarishly</i>	637	12	12	8	3½	12.00
<i>Knarishness</i>	638	12	12	8	5	12.00
<i>Knee</i>	639	12	12	7½	3½	12.00
<i>Kneel</i>	640	12	10	8	4	12.00
<i>Kneeled</i>	641	12	12	8	5	12.00
<i>Kneeler</i>	642	12	12	9	2½	12.00
<i>Kneeling</i>	643	12	11	9	4½	12.00
<i>Kneelingly</i>	644	11	12	8	4½	12.00
<i>Kneepan</i>	645	11	12	8	4½	12.00

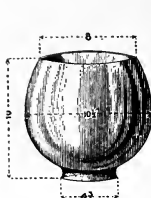
Ground.

<i>Knell</i>	646	12	12	6	2½	12.00
<i>Knelt</i>	647	12	12	8	3½	12.00
<i>Knight</i>	648	12	12	8	5	12.00
<i>Knighted</i>	649	12	12	7½	3½	12.00
<i>Knighthood</i>	650	12	10	8	4	12.00
<i>Knighting</i>	651	12	12	8	5	12.00
<i>Knightless</i>	652	12	12	8	2½	12.00
<i>Knightly</i>	653	12	11	9	4½	12.00
<i>Knit</i>	654	11	12	8	4½	12.00
<i>Knitter</i>	655	11	12	8	4½	12.00

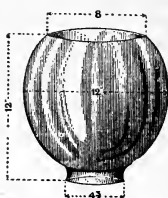
Arc Lamp Globes.—(Continued.)

Globes for Western Electric Arc Lamps.

Arc Light Globes can be furnished in colors, but prices are governed by the quantity. In handling Arc Light Globes extra charge is made for packing when orders are less than original packages.



No. 21033.



No. 21034.

Clear.

Code Word.	List No.	Diam. in ins.	Height inches.	Top Opening in ins.	Bottom Opening in ins.	List Price. Per doz.
<i>Salutiferous</i>	21033	10½	10	8	4¾	\$11.00
<i>Salenbilly</i>	21034	12	12	8	4¾	11.00
<i>Salenble</i>	21035	12	14	7¾	3¾	14.00
<i>Salenbless</i>	21036	12¾	14	7¾	3¾	14.00

One-Quarter or One-Half Ground.

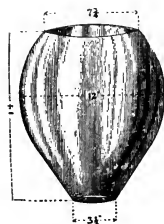
<i>Salenge</i>	21037	10½	10	8	4¾	12.00
<i>Salentellu</i>	21038	12	12	8	4¾	12.00
<i>Salention</i>	21039	12	14	7¾	3¾	16.00
<i>Salentory</i>	21040	12¾	14	7¾	3¾	16.00

Full Ground or Opal.

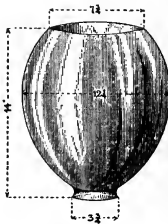
<i>Salce</i>	21041	10½	10	8	4¾	13.00
<i>Salcer</i>	21042	12	12	8	4¾	13.00
<i>Salcershaped</i>	21043	12	14	7¾	3¾	18.00
<i>Salica</i>	21044	12¾	14	7¾	3¾	18.00

Alabaster.

<i>Salcifer</i>	21046	7	10	7	7	20.00
<i>Salco</i>	21047	7	4¾	7	7	20.00



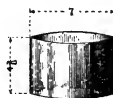
No. 21035.



No. 21036.



No. 21046.



No. 21047.

No. 21033 is for the old style, low tension Western Electric Arc Lamps.

No. 21034 is for both the wide and narrow frame Western Electric Standard Lamps; also for either the Monitor or Duplex Lamps, both wide and narrow frame, and the old style double Carbon lamps.

No. 21035 is for the ornamental series lamps and the ornamental constant potential lamps.

No. 21036 is for the encased single lamps and new style double Carbon lamps, narrow frame.

No. 21046 is for ornamental series single Carbon lamp fitting above the regular globe.

No. 21047 is for the ornamental constant potential lamp fitting above the regular globe.

Both No. 21046 and 21047 act in a measure as spark arresters, as all of the working parts, the carbons and carbon rods are within an enclosed space. The use of these globes meets the approval of the underwriters.

Code Word "Saliva," List No. 21044, page 178,
should be "Sali."

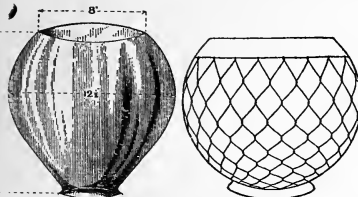


Arc Light Globes—(Continued.)

Globes for Western Electric Arc Lamps—(Continued.)

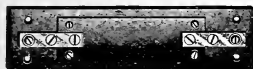
Code Word.	List No.	Diam. in ins.	Height in ins.	Top Opening in ins.	Bottom Opening in ins.	List Price per doz.
<i>Silly</i>	23076	12½	12	8	4¾	16.00

Above Globe for Western Electric Focusing Chain Lamp.



No. 23076.

No. 2843.



No. 21353.



No. 21354.

Globe Nets.

<i>Bageress</i>	2843	Arc Globe Net, copper, each40
-----------------	------	-----------------------------	-------	-----

Static Arresters.

Electric discharge from belts will often perforate the insulating material of a dynamo or of cables connected thereto. Our arresters form a high resistance path for the electrical discharge from the frame of the dynamo to ground. They are made in two styles, No. 1 Graphite, No. 2 Liquid.

<i>Sarcodern</i>	21353	Graphite, each	.....	1.40
<i>Sarcoid</i>	21354	Liquid " "	.....	1.70

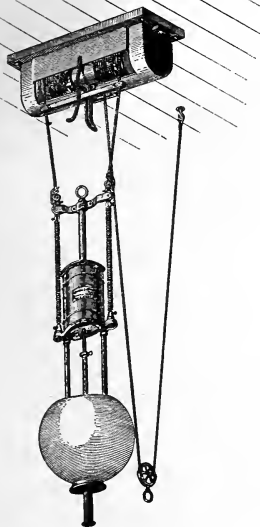
Improved Adjustable Lamp Hanger.

This Hanger is designed for use with any form of arc lamp, either high or low tension, and is well adapted for operation of arc lamps upon incandescent circuits.

The important features in connection with this hanger are the suspension of the lamps by the conducting cords direct, insuring perfect electrical contacts and adequate support. The ratchet and arm are so combined with the rope used in raising and lowering the lamp, that breakage of the rope or careless handling cannot cause the lamp to fall. The automatic switch so constructed that when the lamp is lowered it is completely disconnected from the circuit and when raised to the proper height it is again placed in circuit—this being done automatically insures absolute safety for the attendant and avoids interference with other lamps on the same circuit.

These Hangers are mounted upon slate bases, equipped with brass terminals having perfect electrical connection with the roller mechanism and switch. The roller is made of cast iron and coated with glazed enamel, then covered with sheet asbestos, thus forming a positive insulation. An enameled iron cover is provided which adds to the appearance and serves as a protection to the cords and working parts. Conducting cords of any desired length within the capacity of the roller will be supplied, adapting the hanger for use on ceilings varying in height twenty-five feet down, or to be readily adjusted to different heights as circumstances may require.

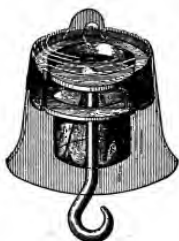
This hanger has been approved by the Board of Underwriters.



No. 21360.

Showing Lamp attached.

<i>Sarcology</i>	21360	Complete, with cord	30.00
------------------	-------	---------------------	-------	-------

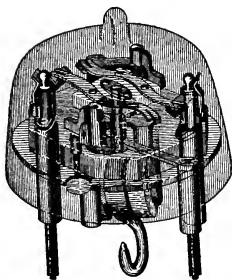


No. 23077.

Bell Hanger.

The use of "Bell Hangers" for Arc Lamps used outside is becoming general, and is quite necessary when Arc machines of from 60 to 125 lights capacity are used. The ordinary form of lamp suspension has not sufficient insulation where such high voltages are used, and we have designed this type of hanger with a view to overcoming such troubles as are caused by poor insulation, insufficient support and contact at connections to circuit.

Code Word.	List No.	List Price. Each.
<i>Silure</i>	23077 Bell Hanger	\$1.40

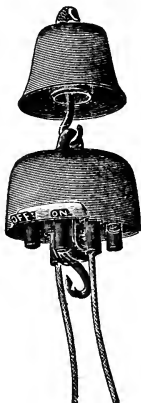


No. 21358.

Cut-Off Switch.

The complete Cut-off Switch is mounted on slate, and contacts are so arranged that no arc can be made in throwing on or off. The lamp is suspended from the hook in center, and is not in any manner dependent on the circuit wires for support, connection being made with circuit by means of plugs and suitable spring jacks, enabling the removal of the lamp from the circuit in less time than one-half minute, and with no personal danger. The casing and bell covering insulator are of metal, and render all the contacts thoroughly waterproof.

<i>Sarcologic</i>	21358 Complete, with plugs and cords	8.00
-------------------	--	------



No. 21359.

Bell Hanger and Cut-Off Switch Combined.

It is advisable in case of high voltage to use the Bell Hanger in connection with the Cut-off Switches to insure perfect safety. This combination is shown in illustration No. 21359.

<i>Sarcologist</i>	21359 Complete, with bell hanger	9.40
--------------------	--	------



No. 8703.



No. 20895.



No. 20777.



No. 20896.

Fletcher Insulating Arc Lamp Hangers.

(PATENTED.)

Are not only convenient for attaching lamps to their fastenings in all positions, but save loss of current from any and all conditions to which lamps may be subjected.

Code Word.	List No.	List Price Each.
<i>Ecliptic</i>	8703 Each.....	\$0.35

Fletcher Insulating Lamp Hanger.

Three Knobs.

(PATENTED.)

Same as No. 8703, with the addition of a knob on each side, to which current wires may be attached before entering binding posts of arc lamps. Especially useful where commercial lamps are placed in front of or inside stores, hotels, theatres, etc.

<i>Salicene</i>	20895 Complete.....	.40
-----------------	---------------------	-----

Cutter Revolute Insulator.

For Arc Lamps.

Has the insulating knob mounted on a porcelain base so as to turn freely, and is secured to the ceiling by two screws. Makes a firm support with a double insulation between the wire and the ceiling.

The insulating knob can be easily removed and the wire placed above it, taking the weight off the tie wire.

<i>Sufeconduct</i>	20777 Complete, each12
--------------------	----------------------------	-----

Cutter Ceiling Hook.

For Arc Light Wiring.

A simple, compact and strong insulator for supporting indoor arc lamps. The shell and hook are of malleable iron, while the porcelain is solid at the back so as to exclude moisture. The hook is so shaped that the lamp cannot be accidentally lifted off it in trimming.

<i>Salicomia</i>	20896 Complete30
------------------	----------------------	-----



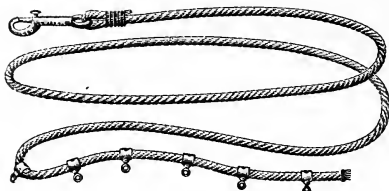
No. 20776.

Cutter Arc Insulator.

It will insulate the frame of the lamp from the hoisting rope or suspension hook.

Made with a double petticoat hard rubber bell, which forms an effective watershed.

Code Word.	List No.	List Price. Each.
<i>Safe</i>	20776 Complete.....	\$.40

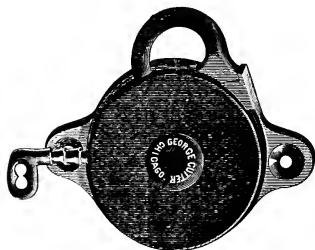


No. 20897.

Cutter Trimmer's Snap Rope.

Consists of a 30-foot length of half-inch rope with a snap-hook at one end and six rings clamped to the rope near the other end. This is used with hoisting ropes ending in a ring at the pole lock, and is carried by the trimmer on his rounds. The rings on the rope can readily be set at any desired points so as to vary the length of the "snap rope" to suit the varying height of lamps at different crossings.

<i>Safety</i>	20897 Complete.....	1.25
---------------	----------------------------	-------------



No. 20898.

Cutter Pole Lock.

(PATENT APPLIED FOR.)

A weather-proof lock for securing the end of the hoisting rope, as used with arc or incandescent suspension lamps. Is quickly put up and prevents tampering with the rope.

Has the back curved to fit the pole, is strong and perfectly weather-proof. The only pole lock adapted for electric light suspensions.

<i>Safety</i>	20898 Complete40
---------------	-----------------------------	------------



No. 20889.

Fletcher Improved Pole Padlock.

Very necessary for use where flexible iron cord is used with ring attachment at end. By using this Padlock the trimmer needs only a bridle-snap and piece of rope of sufficient length to lower his lamps.

<i>Safety</i>	20889 Complete	30
---------------	-----------------------------	-----------



No. 2852.

Lamp Cross Arm.

Code Word.	List No.	List Price.
<i>Economy</i>	2852 Each	\$ 0.25



No. 20778.

Cutter Combination Cross Arm.

Combines the fine and weatherproof Cutter's Arc Insulator, with a spreader cross-arm for the line wires. The cross-arm is of enameled wood, tipped with metal ferrules to prevent splitting.

<i>Safeguard</i>	20778 Complete60
------------------	----------------------	-----



No. 20879.

Fletcher Insulated Cross-Arm.

<i>Suleratus</i>	20879 Each60
------------------	------------------	-----



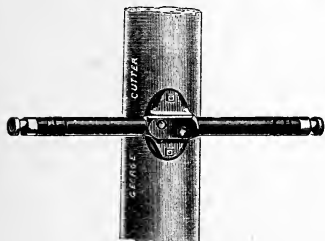
No. 20779.

Cutter Featherweight Spreader.

For Arc Light Wires.

Is readily fastened to the wires running to suspension lamps so as to keep them at a distance of seventeen inches from each other. Made of enameled wood, metal tipped with porcelain insulators. Weighs less than eight ounces.

<i>Safekeeping</i>	20779 Complete, per 100	15.00
--------------------	-------------------------------	-------

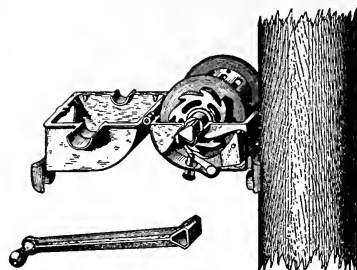


No. 20880.

Cutter Brace Arm.

This Brace Arm consists of an insulating arm securely bolted to a specially designed plate which fits the pole. It is more easily and more quickly put on than the ordinary cross arm with its pins and insulators, besides making a much neater job.

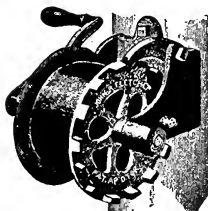
<i>Sallubery</i>	20880 Complete	Each. ..35
------------------	----------------------	---------------



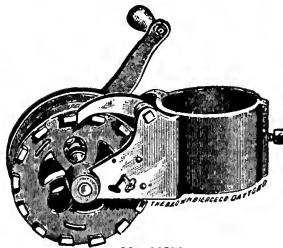
No. 20865.



No. 20868 and No. 20869.



No. 8802.



No. 20870.

Windlasses.

Western Electric.

The Western Electric Windlass was designed for a quick-raising, self-locking and absolutely safe windlass. The drum is large and entirely enclosed, except a slot at the top for the wire to pass through, and it is thoroughly sleet-proof.

The self-locking device on the side makes it impossible to release without the aid of the special crank.

It is light, compact and durable, and is easy to put in service and will fit any size of pole.

Code Word.	List No.	List Price. Each.
<i>Sake</i>	20865 Complete	\$3.10
<i>Sacker</i>	20866 Without handle.....	2.50
<i>Sackeret</i>	20867 Handle only.....	.60

Cutter Combination.

Combines the extra leverage of a geared windlass with the safety of a locking windlass, and the low cost of a plain windlass. The pinion is detachable, and is secured to the light handle, which also operates the locking cam. One of these pinion handles is sufficient for all the windlasses on a trimmer's route.

You can use this device as a plain windlass for quick lowering, and then use the gearing in raising the lamp. This windlass will take fifty feet of five-sixteenth inch cable, or forty feet of three-eighth inch.

<i>Saki</i>	20868. Without Handle	2.75
<i>Sul</i>	20869 Pinion Handle.....	1.00

The Fletcher Safety.

For Wood Poles.

With Lock and Key.

<i>Edda</i>	8802 Fletcher's Safety Windlass (takes 35 feet iron flexible cord).....	2.50
<i>Eddy</i>	8803 Fletcher's Safety Windlass (takes 75 feet flexible iron cord, or 40 feet rope).....	3.00
<i>Eden</i>	8804 Handle (or Crank) for either above Windlasses.	1.00

For Iron Poles.

<i>Salnam</i>	20870 Windlass (takes 35 feet iron flexible cord).....	3.50
<i>Salable</i>	20871 Windlass (takes 75 feet iron cord or 35 feet half-inch rope).....	4.00
<i>Salably</i>	20872 Handle (or crank) for above.....	1.00



No. 8905.

Fletcher Sleet-proof Pulleys.

Code Word.	List No.	List Price. Each.
<i>Edgar</i>	8805 Medium, for $\frac{1}{2}$ -inch rope.....	\$.75
<i>Edge</i>	8806 Midget, " $\frac{3}{8}$ -inch rope.....	.50
<i>Edgewise</i>	8807 Jumbo, " 1-inch rope.....	1.00



Fig. 1.

Shows position of cord when lamp is being drawn into suspension.



Fig. 2.

Shows position of cord when lamp is in suspension, with Fletcher's Insulating Lamp Hanger attached. Lamp Hanger is not a requisite part of the arrangement, and is only furnished when specially ordered.

Fletcher "Sure Grip" Sleet-proof Pulley.

The danger and expense incident to the falling of arc lamps from defects in pulleys used with rope or cord suspension, has suggested the need of a good sustaining pulley which, when lamp is drawn up, would hold it rigidly in position. The Fletcher "Sure Grip" Sleet-proof Pulley does this in a simple, effective manner.

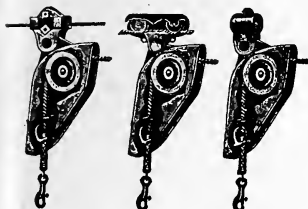
No care is required on the part of the trimmer, nor is any extra weight added to weight of lamp when going into suspension; when lamp is in place high winds cannot release it, and trimmer is required to use only the ordinary amount of exertion in lowering it.

No. 960.

Edible

- 960 Fletcher "Sure Grip" Sleet-proof Pulley (takes $\frac{1}{2}$ -inch rope)..... 1.50

Includes everything necessary except rope.



No. 20886.

No. 20887.

No. 20888.

Fletcher Automatic Pulleys.

<i>Salubrit</i>	20886 Automatic Suspension Pulley.....	1.00
<i>Salub</i>	20887 Automatic Travelling and Suspension Pulley.....	1.35
<i>Sal</i>	20888 Automatic Mast Arm Pulley.....	1.10

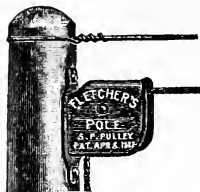
Fletcher "Safety Lamp Support."

Designed especially to be used where Pulleys are already up; can be used with any Pulley, either Sleet-proof or open, and saves the lamp from falling should ropes become worn or otherwise imperfect.

- Salubrit* 958 Fletcher's Safety Lamp Support..... .75
(Above price does not include Pulley.)



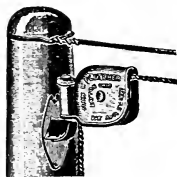
No. 958.



No. 8808.

Fletcher Sleet-proof Pole Pulley.

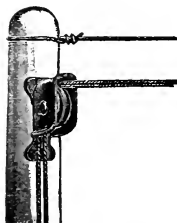
Code Word.	List No.	List Price. Each.
<i>Edit</i>	8808 Jumbo (takes 1-inch rope).....	\$0.75
<i>Edit</i>	8809 Sleet-proof Pole Pulley (takes $\frac{1}{2}$ inch rope)....	.35



No. 20884.

Fletcher Swivel Pole Pulley.

<i>Salamanca</i>	20884 Each.....	.35
------------------	-----------------	------------



No. 8810.

Fletcher Double Wheel Sleet-Proof Pole Pulleys.

<i>Edit</i>	8810 Takes $\frac{1}{2}$ -inch rope .....	.75
<i>Edit</i>	8811 Jumbo (takes 1-inch rope)	1.00



No. 8704.

Fletcher Duplex Sleet-proof Pulley.**With Two Wheels.**

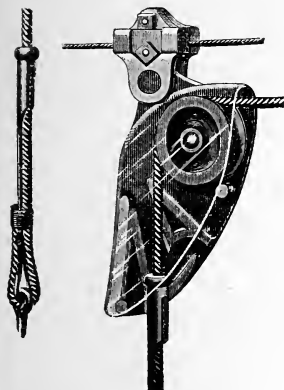
<i>Edit</i>	8704 Takes $\frac{1}{2}$ -inch rope	1.00
-------------	---	-------------



No. 20885.

Fletcher Twin Sleet-proof Pulley.

<i>Salamanca</i>	20885 Takes $\frac{1}{2}$ -inch rope	1.00
------------------	--	-------------



No. 20889.

Cutter Lamp Supporting Pulley.

A really weatherproof pulley for arc lamps. Entirely automatic, with no cams or pawls to get out of order. Catches the lamp when raised, releases it when about to be lowered, and never fails. There is a dead stop to the rope in each case so that you cannot pull it too far.

Code Word.	List No.	List Price. Each.
<i>Salep</i>	20889 $\frac{1}{2}$ Complete, with Hook Knob.....	\$.80

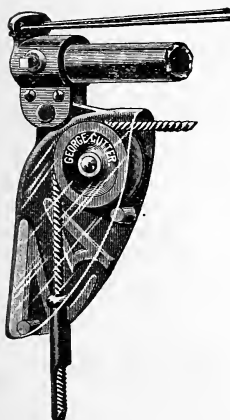


No. 20890.

Cutter Swivel Pole Pulley.

Is swiveled so that it can swing sideways and keep in line with the hoisting rope. The supporting plate is made of malleable iron and curved to fit the pole. This pulley avoids all chafing of the rope on the edge of the casing and thus saves the wear on the rope.

<i>Salesteam</i>	20890 Complete40
------------------	----------------------	-----



No. 20891.

Cutter Mast Arm Pulley.

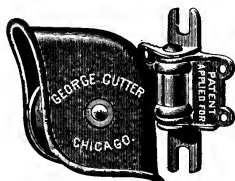
This is a form of the lamp-supporting pulley with a special clamp to fit iron pipe $1\frac{1}{4}$ or $1\frac{1}{2}$ in. inside diameter, as commonly used for mast arms.

Has all the good feature of the regular lamp supporting pulley, and has holes in the head-piece so that the strain rods can be run direct to this.

<i>Salework</i>	20891 Complete90
-----------------	----------------------	-----



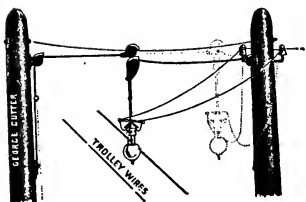
No. 20892.



No. 20893.



No. 20894.



Cutter Interchangeable Pulley.

(PATENT APPLIED FOR.)

A thoroughly weatherproof pulley which will fit anything from a 3-16 inch suspension wire to an 8 inch pole. Has a double-grooved clamp to fasten it to the suspension wire, when it is used as a center pulley. By opening out the clamp it forms a pole-plate which fits the carved surface of the pole and which makes a fine swivel pole pulley.

Strongly made with malleable iron clamp.

Code Word.	List No.	List Price Each.
<i>Saliant</i>	20892 Center Pulley, complete.....	\$.40
<i>Salic</i>	20893 Pole Pulley, " .....	.40

Cutter Running Pulley.

(PATENTED.)

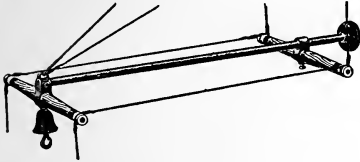
The only safety pulley made for use over trolley wires. Holds the lamp securely when raised and allows it to be lowered close to the pole without interfering with the trolley or guard wires.

Furnished complete with covered "traveler" sheave, malleable iron hook knob and adjustable clamp stop.

<i>Salicaceous</i>	20894 Complete	1.20
--------------------	----------------------	------

Arc Light Supplies.—(Continued).

Cutter Outrigger.



No. 20881.

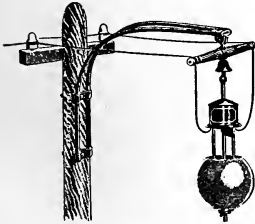
Has a head-piece of malleable iron with a double petticoat hard rubber bell insulating the lamp from the outrigger. This head-piece forms a cap for the wrought iron outrigger, which can be shortened by removing the cap and cutting off the extra length.

The wood cross-arms carrying the line wire insulators are waterproofed with a baked enamel, and tipped with metal ferrules to prevent splitting. The inner one is supported by a malleable iron sleeve which can be clamped at any desired point so as to clear signs or projections in the building.

Code Word. List No.

List Price.
Each.

Salamander 20881 Complete as per cut (6 foot overhang) \$1.50



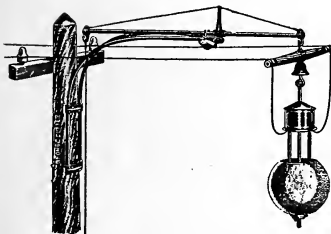
No. 20882.

Cutter Pole Arc Fixture.

Supports the lamp three feet from the pole, so as to bring it out of the line of the shade trees. Can be fastened at any desired height from the top of the pole, fits any size of pole and is more easily put up than a poletop fixture.

Is built of wrought iron with malleable iron fittings, making a very strong, firm and neat fixture. This is assembled before shipping so as to be readily bolted in place. Furnished with "combination cross-arm" for insulating the line wires from the fixture and from the lamp frame.

Salamander 20882 Complete..... 2.50



No. 20883.

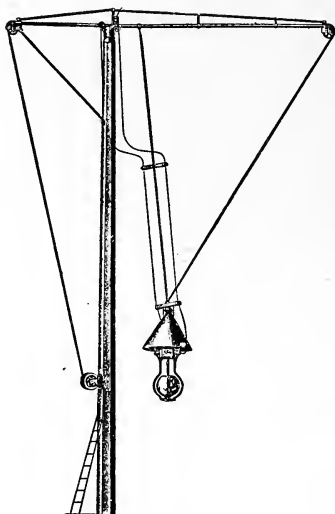
Cutter Swinging Arc Fixture

Consists of the Pole Arc Fixture with an extension to bring the lamp five feet from the pole. The extension arm is pivoted so that it will swing down within reach of the pole when the lamp is to be trimmed. After trimming the extension is drawn back to place by the wire rod which hooks into a special socket bolted to the pole (but not shown in the cut).

Wrought iron tubing, malleable iron fittings and steel strain rods give the fixture ample strength and firmness, while the "combination cross-arm" insures proper insulation.

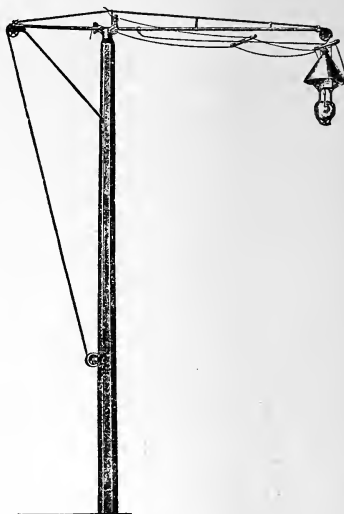
Salamander 20883 Complete..... 3.50

The Brady Mast Arm.



No. 2849.

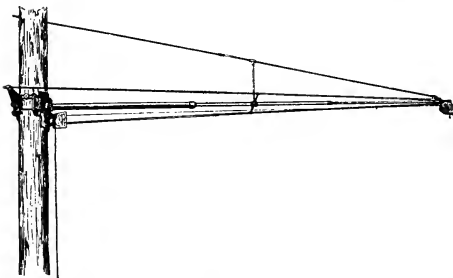
Eur **2849** 15 Foot Extension, each..... **\$14.00**
 Each additional foot **.75**



No. 2848.

Eagle **2848** 15 Foot Extension, each..... **\$14.00**
 Each additional foot **.75**

Western Electric Mast Arm.

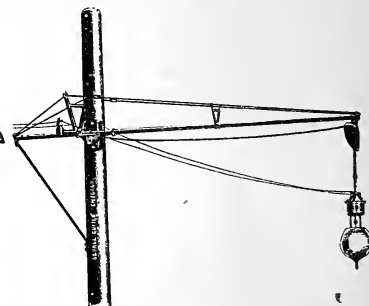


No. 23086.

Silverless **23086** 10 Foot Mast Arm, including
 two covered pulleys..... **\$12.00**
 Each additional foot..... **.75**

Windlass for Mast Arm extra.

Cutter Mast Arm.



No. 23087.

Silverly **23087** 12 Foot Cutter Mast Arm complete with lamp supporting pulley at outer end and covered pulley at pole, **\$12.00**
 Each additional foot..... **.75**

Windlass for Mast Arm extra.



No. 21085.



No. 21087.

Incandescent Arc Lamps.

For Continuous Current.

The advantages of operating arc lamps on incandescent circuits as a matter of convenience, has of late years been fully realized.

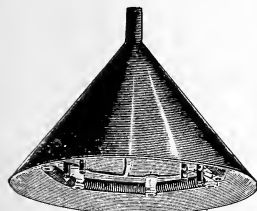
The lamps are placed two in series on a circuit of 110 volts, and are adjusted to consume 10 amperes of current. Each lamp requires 45 volts to maintain a nominal 2000 candle power and the necessary amount of resistance is placed in circuit to compensate for the volts above the number used by the two lamps in series.

By dispensing with the ordinary series magnet in the lamp, and providing the feed magnet with cut-out device adapted to switch the feed magnet out of circuit automatically when the carbons are consumed to a certain point, any possibility of a burn out in a lamp is avoided.

The electrical and mechanical arrangement of the lamp is such that the carbons cannot become short-circuited while the lamp is in operation. Thus when a number of lamps are operated in series on the same circuit, they must necessarily be of the same candle power.

The resistance used with the lamp is connected directly to it as shown in the illustrations, and obviates the disfigurement of the lamp structure. It also facilitates the hanging of the lamp, and overcomes the objections made by the Fire Underwriters to the ordinary form of resistances which are inclosed in boxes placed upon the wall. This resistance may be varied according to the volts lost in the wiring. When it is not convenient to have the resistance connected directly to the lamp we can furnish resistance boxes in place of the coils.

Code Word.	List No.	List Price. Each.
<i>Sauvesson</i>	21085 Plain, with resistance coils.....	\$34.00
<i>Sauvignon</i>	21086 Plain, without resistance coils.....	30.00
<i>Sand</i>	21087 Ornamented, with resistance coils.....	48.00
<i>Sauerkrut</i>	21088 Ornamented, without resistance coils.....	44.00
<i>Saul</i>	21089 Resistance Box, only	22.00

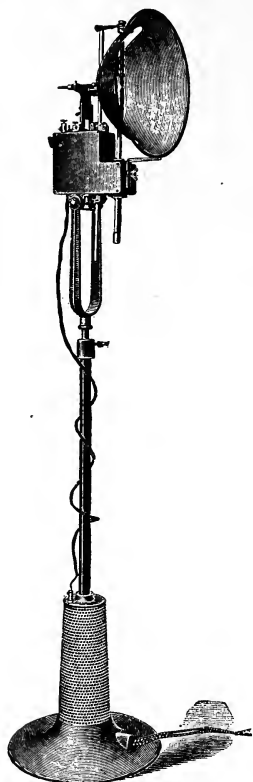


No. 21090.

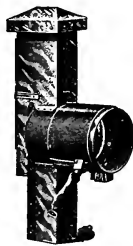
Hood for Incandescent Arc Lamp.

With Resistance.

<i>Saulie</i>	21090 Complete	10.00
---------------	----------------------	-------



No. 20873.



No. 20875

The Kreuger Theater Arc Lamps.

This lamp was designed and is especially adapted for use in theaters, halls and public buildings, and is without question the best means for obtaining brilliant lighting effects for stage work. It takes the place of the calcium light, and is far superior to it in many respects. It is easier to transport, is less dangerous, more reliable, and far more economical.

In the accompanying cut the lamp is shown attached to its supporting stand, equipped with a silvered parabolic-reflector, but the lamp is so arranged that the reflector can be quickly and easily removed, and a lens box or Boomerang substituted for it, making it possible to use a single lamp for varied effects.

The illuminating power of the lamp is equal to 3,000 candles, and owing to the simple but ingenious regulating mechanism, the light is maintained at a very constant strength. The lamp is practically noiseless in its operation, and owing to the entire absence of any devices depending upon gravitation in the regulating mechanism, the lamp can be inclined to any desired angle without interfering with its operation and without re-adjustment.

In operating the lamp, connection can be made direct to the supply wires of a 110 volt constant potential lighting system, observing that the current passes downward through the carbons, and under these conditions the rheostat in the perforated cone at the base of the lamp will restrict the current passing through the lamp to the proper strength.

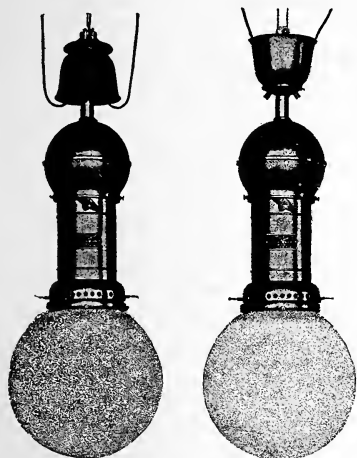
Attachments for Kreuger Theater Lamp.

The lens box is used when it is desired to concentrate the rays of light more or less according to adjustment. It is very useful in cases where it is desired to throw a strong stream of light upon a moderate sized object upon the stage, or to follow an object in its movements.

The Boomerang is used when a uniform dispersion of light over a considerable area is desired, which result is secured by means of a ground glass front. In front of the ground glass is provided a color frame, open at both sides so that frames can be slid through in succession and the colors changed without showing the white light.

These lamps and attachments are carried in stock and can be supplied promptly on receipt of order.

Code Word.	List No.	List Price. Each.
<i>Salacious</i>	20873 Lamp, Stand and Rheostat	\$90.00
<i>Salaciously</i>	20874 Portable Lamp Rheostat.....	25.00
<i>Salucity</i>	20875 Lens Box	24.60
<i>Salud</i>	20876 Single Boomerang.....	86.00
<i>Salade</i>	20877 Double Boomerang.....	146.00
<i>Saluding</i>	20878 Glass Lined Reflector.....	43.00
<i>Saucity</i>	21082 Enamelled Copper Reflector.....	10.00
<i>Sauciness</i>	21083 Reflector Front.....	2.10
<i>Sducisse</i>	21084 Set of 5 Colors	12.60
<i>Saintologist</i>	20862 Plugs and Receptacle.....	3.20



Adapted for Outdoor Use. . . Adapted for Indoor Use.

Western Electric Long-Burning Enclosed Arc Lamp.

The first illustration shows the lamp arranged for outdoor use. The bell which encloses the rheostat is turned down. The position of the bell can be changed to that shown in the illustration of lamp for indoor use. The stem of the lamp can be made any length to suit the height of the ceiling.

The third illustration shows the manner in which the globe is handled and the lamp trimmed. The globe is lowered and is held in position as shown by the construction of the lower portion of the carbon holder or side arm.

The lamp requires half-inch carbons, one 12 inches long and one 5 inches long.

The fourth illustration shows the mechanism in plain view, and in order to get at this mechanism all that is necessary is to slip the shell down. The switch is of a quick break pattern and can be reached and manipulated easily from the ground with a pole. The switch handle is just above the name plate as shown in the illustration. The lower carbon holder and enclosing globe are made removable, simplifying the trimming. The clutch mechanism requires the least amount of energy to operate it, roller bearings being used to lessen the friction.

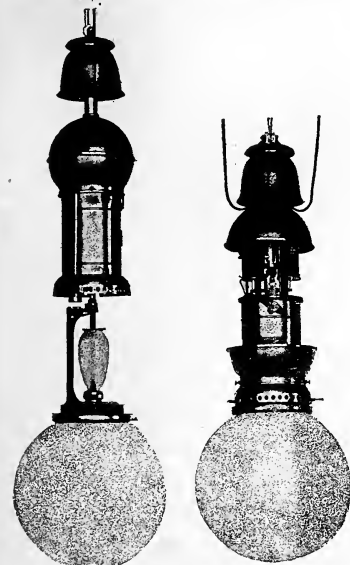
There is no shadow cast by the globes. They are a true sphere in shape and closed at the bottom.

The lamps can be operated singly on 110 volts, two in series on 220 volts, or five in series on 550 volts. They distribute light uniformly, burn steadily, are noiseless, and the mechanism is simple and strong.

The standard lamps are of a dark or oxidized copper finish.

An ornamental brass lamp can be furnished and also other finishes upon special orders.

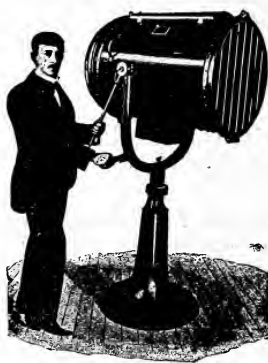
Prices on Arc Lamps quoted on Application.

Showing Globe lowered
ready for trimming.

Showing Mechanism.

The Rushmore Projectors and Search-Lights.

Type "A" Projector.

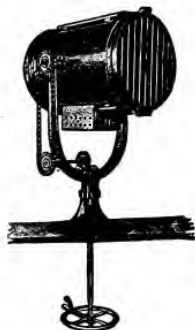


Type "A."

This is a high power Projector, possessing all the advantages of the best lights formerly used in the Navies, giving an intensity estimated at one million candle power per ampere in the arc, and is entirely free from the complicated mechanism which has made it necessary for every warship to carry a corps of, "Search Light Experts" to keep them in working order. The apparatus consists essentially of a cylinder which is entirely empty except for the slender carbon holders which cast no shadow, and the lamp is placed in a small case below the cylinder. In the rear cover is mounted the new lens mirror, and the arrangement, as will be seen by the following illustrations, is such that all the light from the carbons is thrown upon it. There is no light lost, and by reason of the central position of the carbons it is possible with the new lens to cause the light to be projected in a narrow beam, spreading to but 100 feet at a mile distance, or to spread it out as wide as desired for making landings, etc., which is accomplished by simply turning a small hand wheel shown on the lower lamp case. This device dispenses with the heavy and costly double diverging lenses placed in the front of the old navy lights, which are a constant expense and annoyance by breaking.

This type projector is designed particularly for the largest steamships, but is made in all sizes down to the smallest yacht light, as will be seen by price list.

Diameter, inches	Amperes.	Plain Iron Japanned	Iron Frame Polished Brass Cylinder	Black Brass Frame Polished Cylinder	All Brass Polished All Over,	Height to Center of Cylinder, inches.	Weight Complete, Lbs.
10	5 to 10	.....	\$375 00	\$405 00	\$445.00	18	55
14	10	\$375 00	400 00	440 00	480 00	27	80
14	20	385 00	410 00	450 00	500 00	27	80
14	25	395 00	420 00	460 00	510 00	27	80
18	35	470 00	505 00	565 00	625 00	30	165
18	45	495 00	530 00	590 00	650 00	30	165
26	60	900 00	960 00	.....	.....	58	365
26	80	975 00	1095 00	.....	.....	58	365
34	100	1500 00	1600 00	.....	.....	58	450



Type "D."

Pilot House Projector. Type "D."

This apparatus is the same as the Type "A" Projector just described, but mounted in a special U frame, adapting it for use on the roof of the pilot house. A controlling shaft arrangement, as shown, extends below, by means of which the light is readily thrown in any direction by the man at the wheel. With this arrangement it may be controlled with even greater ease than can the deck lights, as the operator is away from the glare of the intense beam, and the light being overhead can be directed with perfect accuracy.

The Rushmore Projectors and Search-Lights. (Continued.)



Type "D."—Open.

Pilot House Projector. Type "D."—(Continued.)

Illustration shows the projector with front and back doors opened, and it will be readily seen that anyone can place the carbons in the holders, and should they not be of proper length for focus of the light, the lamp may be instantly shifted to bring it to focus, and thus it is not necessary to have the carbons of an exact length. This will be appreciated by those who have used the old style search lights which it was necessary to take to pieces to replace the carbons and which could never be trimmed in the dark as is often required where the apparatus has been neglected by day.

Other forms of this projector have means of controlling the light when placed away from the pilot house.

Diameter, inches.	Amperes.	Plain Iron Jspanned	Plain Iron Polished Brass Cylinder	All Brass Polished Cylinder	All Brass Polished All Over.	Height to Center of Cylinder Inches.	Weight Complete Lbs
10	5 to 10	...	\$475 00	\$505 00	\$545 00	18	65
14	10	\$475 00	500 00	540 00	590 00	27	100
14	20	485 00	510 00	550 00	600 00	27	100
14	25	495 00	520 00	560 00	610 00	27	100
18	35	570 00	605 00	665 00	725 00	33	190
18	45	585 00	630 00	690 00	750 00	33	190
26	60	1000 00	1060 00	...	...	38	325
26	80	1075 00	1195 00	...	...	38	325
34	100	1600 00	1700 00	...	...	40	480

The Lens.

An important feature of the projectors is the new corrective Aplanatic Lens which differs from all other lenses previously used, in that it has a corrective principle which compensates for the area of the carbons. In the common mirror the actual focus is an infinite point, but as the large carbons have a crater of considerable area, such lenses cannot give a perfectly straight beam. By the new design this difficulty is largely overcome. The lenses are of wonderfully strong focus. They are made of a special grade of glass and the latest type machinery is used for their finishing.

The Concentric Lamp.

The new Concentric Lamp has but a single spool magnet and two gear wheels. It feeds with a power of over thirty pounds at all angles or vertically and its adjustment is permanent and simple.

Projectors in the Fog.

The light is concentrated to a single narrow beam which causes very little reflection to annoy the pilot, but in real fog a light, no matter how powerful, if thrown horizontally, is worse than useless, as it can penetrate but a short distance, and by its reflection serves only to blind those on watch. It is well known that fog lies close to the water and, to take advantage of this fact, the projectors are constructed to throw a light in a vertical direction when required. In this way the beam easily



The Rushmore Projectors and Search-Lights. (Continued.)

Projectors in the Fog.—(Continued.)

penetrates the layer of mist and throws a bright, round spot on the sky which is readily seen by other vessels, and by a suitable switch the light may be flashed to give any signals desired.

Search Lights for Electric Railways.

As an advertising device there is nothing so successful as the Electric Search Light, particularly where the object is not to attract people merely by curiosity, but for the purpose of viewing the effects at a distance.

Nearly all electric railways have extended their lines to some popular resort, or have established parks of their own. These are usually on high ground, and in such cases one of the most attractive features that could be added is a powerful search light. This apparatus when so ordered, is built to work on the regular power circuits and is not affected by fluctuations in the voltage common at the end of trolley lines. It has been found that where this apparatus has been installed for this purpose it has in a short time more than paid for itself by increased receipts.

Plain Reflector Lights. Type "B."

Old style common reflector search light. It is radically different from the projectors, as it has a silver-plated sheet copper reflector of the locomotive type. The construction is very simple. The lamp movement is similar to that used in the projectors and has permanent adjustment. It is easily cleaned and supplied with new carbons and is intended for rough service and short range work.

Diameter, inches.	Amperes.	Plain Iron Japanned	Plain Iron Polished Brass Cylinder.	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches	Weight Complete Lbs.
18	10 to 25	\$260 00	\$300 00	\$360 00	\$420.00	30	150
26	30 to 40	370 00	430 00	D .....	.....	38	250

Plain Pilot House Reflector Light. Type "C."

This apparatus is the same as Type "B," mounted in a special U frame, adapting it for use on top of pilot house. See description of Type "D."

Diameter, inches.	Amperes.	Plain Iron Japanned	Plain Iron Polished Brass Cylinder	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches	Weight Complete Lbs.
18	10 to 25	\$340.00	\$390.00	\$450 00	\$510.00	33	180
26	30 to 40	448 00	510.00	.....	.....	38	280



The Columbian Street Lamp Post.

PATENTED.

For supporting arc lights for street illumination a demand has arisen for a post which, in addition to filling the well-known electrical and mechanical requirements, shall present a symmetrical and pleasing appearance to the eye. A glance at the accompanying illustration will show the success that has attended our efforts in this direction.

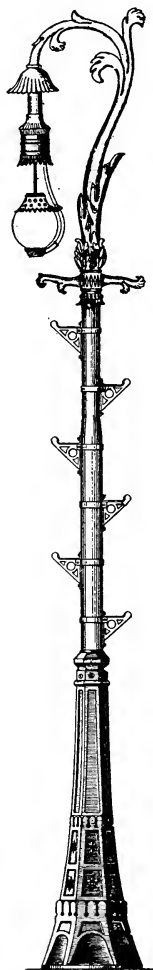
The lower part of this post, which is of cast-iron, has a broad circular base, which, when bolted to the sidewalk, gives the post great stability. Above the base the post assumes a hexagonal form and arises in graceful curved faces, paneled and ornamented in a tasteful manner. One of the panels is hinged so that it may be opened to give access to the switch. The wooden portion of the post extends downward through the cast-iron base to the sidewalk, and above the base is provided with neat malleable iron steps, while at its upper extremity is carried a single side-arm lamp support equipped with switchboard and hood. The cover of the hood can be placed at any angle so that the street names will be parallel with the intersecting streets. The height over all is about 21 feet.

There are about 1,500 posts similar to this now in use on the Electric Light plant of the city of Chicago.

We manufacture these posts with ornamental supporting arm for the lamp in place of the ordinary street hood, for boulevards and parks.

In addition to the Columbian Lamp Posts we are prepared to furnish posts of special designs to suit the purchaser. We will submit drawings on application.

Code Word.	List No.		List Price. Each.
<i>Sundalid</i>	21168	Post, complete, without lamp	\$110.00
<i>Sundaliform</i>	21169	Extra Switches.....	4.50
<i>Sundarac</i>	21170	Extra Doors and Locks.....	4.50
<i>Sundurach</i>	21171	Extra Steps, without ring.....	.40



Boulevard Lamp Post.

For boulevard street lighting we manufacture an ornamental lamp post as shown in the accompanying cut.

This post is thoroughly made, electrically and mechanically, and is graceful in design. It is provided with a cast iron pedestal similar to that furnished with the Columbian lamp post. The cast iron top for supporting the lamp extends over the street in order to afford a good distribution of light, but at the same time the lamp is easily reached from the post for trimming. The wooden portion of the post, which supports the steps, is made to extend through the cast iron pedestal to the ground giving a substantial construction. The post is also made with a top that curves out more than the one shown in the cut, making a post desirable for alley lighting. A switch is placed in the pedestal and is accessible by a hinged panel.

Prices on application.

MARINE.

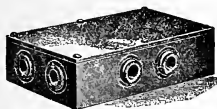


No. 8815.



No. 50965.

No. 50966.



No. 50973.



No. 20858.

Glass Fuses.

Code Word.	List No.	List Price.
<i>Harm</i>	8815 1 Ampere, each.....	\$0.50
<i>Harmed</i>	8816 2 " " .....	.50
<i>Harmful</i>	8817 3 " " .....	.50
<i>Harmfully</i>	8818 5 " " .....	.50
<i>Harming</i>	8819 8 " " .....	.50
<i>Harmless</i>	8820 10 " " .....	.50

Marine Sockets.

<i>Catholical</i>	50965 Keyless, Edison Base, each.....	60
<i>Catkin</i>	50966 Key, Edison Base, each.....	.75

Junction Boxes.

<i>Lounger</i>	50972 Search-light Junction Box, each.....	6.00
<i>Locable</i>	50973 Feeder Junction Box, each.....	6.00
<i>Loveless</i>	50967 Four-way Branch Junction Box, each.....	8.00
<i>Lovetily</i>	63766 Key for Removing Covers of Catalogue Nos. 50972, 50973 and 50967, each.....	.80

Bryant Waterproof Marine Switch.

This Switch is designed for marine work or for use in damp places. The wires enter through stuffing boxes having soft rubber packing. They are extensively used on transatlantic steamers.

<i>Saintism</i>	20858 10 Ampere, Single Pole, each	\$5.00
-----------------	--	--------



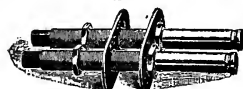
No. 63758.



No. 63764.



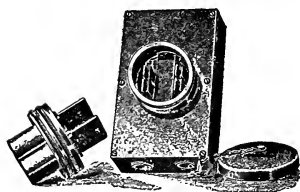
No. 50974.



No. 50970.



No. 50971.



No. 64109.



No. 9121.

Marine Switches.

Code Word.	List No.	List Price
<i>Loveliness</i>	63758	Water-tight Switch and Receptacle, capacity 5 amperes, each. \$6.50
<i>Lovelorn</i>	63759	Water-tight Switch Receptacle and Junction Box, each. 10.00
<i>Lovely</i>	63756	Single Pole Water-tight Switch, capacity 5 amperes, each. 5.00
<i>Lover</i>	63763	Double Pole Water-tight Switch, capacity 25 amperes, each. 7.00

<i>Lovesome</i>	63764	Double Pole Water-tight Switch, capacity 40 amperes, each. 14.00
<i>Lover</i>	63757	Single Pole, not Water-tight Switch, capacity 25 amperes, each. .... .60

Deck Tubes.

<i>Lovemed</i>	50974	Protective Deck Wire Stuffing Tube, each. 8.00
----------------	-------	---

<i>Lowering</i>	50970	Main Deck Wire Stuffing Tube, each. 6.00
-----------------	-------	---

<i>Lowland</i>	50971	Bulkhead Deck Wire Stuffing Tube, each. 1.00
----------------	-------	---

<i>Mildew</i>	64109	Water-tight Receptacle, with Attaching Plug, capacity 5 amperes, each. 5.00
---------------	-------	--

<i>Mileage</i>	64110	Attaching Plug for No. 64109, each. 1.10
----------------	-------	---

<i>Military</i>	64111	Not Water-tight Receptacle, each. 30
-----------------	-------	---

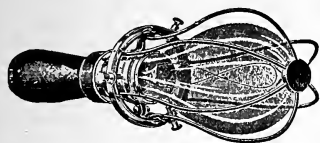
<i>Militia</i>	64112	Attaching Plug for No. 64111, each. 5.00
----------------	-------	---

<i>Milk</i>	64113	Search-light Receptacle, with Plug, each. 19.00
-------------	-------	--

Portable Lamp Guards.

<i>Lotion</i>	9121	Portable Lamp, each. 6.00
---------------	------	--------------------------------

Portable Lamp Guards—(Continued).



No. 4974.

Code Word.	List No.	List Price.
<i>Lottery</i>	4974 Portable Lamp Guard, safety hand key socket, each.....	\$1.25
<i>Lotus</i>	4975 Portable Lamp Guard, safety hand keyless socket, each.....	1.00



No. 8913.

<i>Loud</i>	8913 Brewer's Portable Lamp Guard, each.....	2.50
-------------	--	------



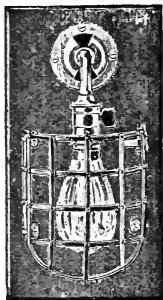
No. 9118.

<i>Miff</i>	9118 Battle Lantern, without Shield, each.....	12.00
-------------	--	-------



No. 9119.

<i>Miffer</i>	9119 Battle Lantern, with Shield, each.....	12.00
---------------	---	-------



No. 9123.

Fixtures.

Code Word.	List No.	List Price.
<i>Might</i>	9123 Half Wire Guard, each.....	\$4.50



No. 9124.

<i>Mighty</i>	9124 Full Wire Guard, each.....	7.00
---------------	---------------------------------	------



No. 9122.

<i>Loudly</i>	9122 Steam-tight Globe, each.....	6.50
---------------	-----------------------------------	------



No. 9125.

Fixtures—(Continued).

Code Word.	List No.	List Price.
<i>Loudness</i>	9125	Steam-tight Globe, with Guard, each.....\$7.00



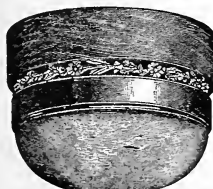
No. 9120.

<i>Lounges</i>	9120	Navy Signal Lantern, each..... 30.00
----------------	------	--------------------------------------



No. 9140.

<i>Mesh</i>	9140	Ceiling Fixture, each..... 8.00
<i>Lactean</i>	8821	Shade, each..... 1.00
<i>Lactic</i>	8822	Rubber Gasket, each..... .50



No. 9141.

<i>Meshed</i>	9141	Ceiling Fixture, each .....11.00
<i>Lactine</i>	8823	Shade, each..... 1.00
<i>Lactic</i>	8822	Rubber Gasket, each..... .50



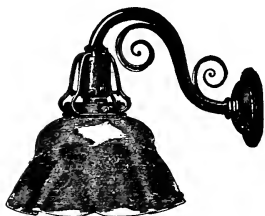
No. 9126



No. 9136.



No. 9134.



No. 9135.



No. 9137.

Fixtures—(Continued).

Code Word.	List No.	List Price.
<i>Meshing</i>	9126	Portable Guarded Freight or Cargo Lantern, with Guard, each .....\$35.00
<i>Ladder</i>	8824	Portable Guarded Freight or Cargo Lantern, no Guard, each.....27.50
<i>Merry</i>	9136	Ceiling Fixture, complete, no Lamp, each..... 4.00
<i>Merriness</i>	9134	Ceiling Fixture, complete, no Lamp, each..... 3.50
<i>Migrate</i>	9135	Wall Bracket, each..... 7.50
<i>Migrating</i>	9137	Wall Bracket, each. 7.50



No. 9138.

Fixtures—(Continued).

Code Word.	List No.	List Price.
<i>Mild</i>	9138 Wall Bracket, each.....	\$10.00



No. 9130.

<i>Migration</i>	9130 Desk Lamp, each.....	12.00
------------------	---------------------------	-------



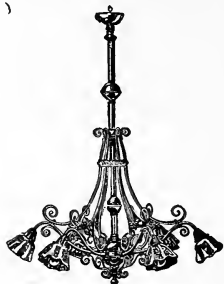
No. 9129.

<i>Meriting</i>	9129 2 Light Electrolier, with Oil Lamp, each.....	35.00
-----------------	--	-------



No. 9131.

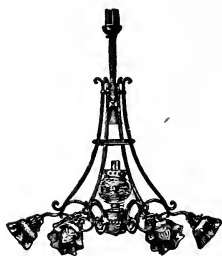
<i>Mermaid</i>	9131 2 Light Electrolier, with Oil Lamp, each.....	30.00
----------------	--	-------



No. 9128.

Fixtures—(Continued).

Code Word.	List No.	List Price.
<i>Merrily</i>	9128	6 Light Electrolier, each.....48.00



No. 9127

<i>Merriment</i>	9127	6 Light Electrolier, with Oil Lamp, each..... 60.00
------------------	------	---



No. 9132.

<i>Milder</i>	9132	3 Light Electrolier, each 6.00
---------------	------	--------------------------------------



No. 9133.

<i>Mildest</i>	9133	2 Light Electrolier, with Oil Lamp, each..... 26.00
----------------	------	---

SHADES.

Porcelain Shades.



No. 2700.



No. 2704.



No. 2709.



No. 2714.



No. 2719.



No. 2720.

Code Word.	List No.		List Price. Per doz.
<i>Denling</i>	2700	5 inch, Fan Shaped, Flat	\$ 2.25
<i>Dennerly</i>	2701	6 " " " "	2.50
<i>Deborah</i>	2702	7 " " " "	2.75
<i>Delia</i>	2703	8 " " " "	3.10
<i>Sinany</i>	23104	10 " " " "	3.60
<i>Sinoun</i>	23105	12 " " " "	7.80

<i>Absolum</i>	2704	5 inch, Plain, Flat	2.00
<i>Abscess</i>	2705	6 " " " "	2.00
<i>Abscund</i>	2706	7 " " " "	2.25
<i>Absconded</i>	2707	8 " " " "	2.50
<i>Absolutely</i>	2708	10 " " " "	2.75
<i>Absoluti</i>	2725	12 " " " "	5.50
<i>Absolce</i>	2726	14 " " " "	6.25
<i>Absolter</i>	2727	16 " " " "	8.75
<i>Absolcing</i>	2728	18 " " " "	15.00
<i>Simious</i>	23106	20 " " " "	17.00
<i>Simper</i>	23107	22 " " " "	26.00
<i>Simperer</i>	23108	24 " " " "	32.00

<i>Denis</i>	2709	5 inch, Deep, Fan Shape	2.25
<i>Depress</i>	2710	6 " " " "	2.50
<i>Depression</i>	2711	7 " " " "	2.75
<i>Deprice</i>	2712	8 " " " "	3.00
<i>Depricing</i>	2713	10 " " " "	6.00

<i>Deadness</i>	2714	5 inch, Plain, Deep	2.00
<i>Deaf</i>	2715	6 " " " "	2.25
<i>Deafen</i>	2716	7 " " " "	2.50
<i>Deafness</i>	2717	8 " " " "	2.75
<i>Deaf</i>	2718	10 " " " "	5.00

From No. 2714 to No. 2718, made in both plain and beaded edge. In ordering state plain or beaded edge as desired.

<i>Lignite</i>	2719	Melon, Opal, for 2½ inch Holder	3.00
----------------	------	---------------------------------	------

<i>Absolut</i>	2720	5 inch, Scalloped	2.00
<i>Absorb</i>	2721	6 " " "	2.25
<i>Absorbent</i>	2722	7 " " "	2.50
<i>Absorbing</i>	2723	8 " " "	2.75
<i>Absorption</i>	2724	10 " " "	5.00



No. 2731.

Porcelain Shades —(Continued).

Code Word.	List No.	List Price.
<i>Lighter</i>	2729 $\frac{1}{2}$ 8 inch, White Porcelain, Deep Cone, per dozen..	\$3.75
<i>Lighterage</i>	2730 10 " " " " " "	4.00
<i>Lightness</i>	2731 7 " Green " " " "	11.25
<i>Lightly</i>	2732 10 " " " " " "	22.50



No. 8712.

Etched Electric Globes—Glass.

Livelihood 8712 7 $\frac{1}{2}$ in. diam., 2 $\frac{1}{4}$ in. high, 2 $\frac{1}{4}$ in. holder, per doz... 10.00



No. 8878.

Litmus 8878 7 $\frac{1}{2}$ in. diam., 3 $\frac{1}{4}$ in. high, 2 $\frac{1}{4}$ in. holder, per doz... 4.00



No. 8770.

Liturg 8770 5 in. diam., 4 in. high, 2 $\frac{1}{4}$ in. holder, per dozen 4.75



No. 8771.

Litter 8771 5 $\frac{1}{4}$ in diam , 4 in. high, 2 $\frac{1}{4}$ in. holder, per dozen 3.75



No. 8772.

Littoral 8772 Per dozen..... 3.50



No. 8773.

Etched Electric Globes—Glass—(Continued).

Code Word.	List No.	List Price.
<i>Littleness</i>	8773 Per dozen.....	\$3.50



No. 8825.

<i>Littering</i>	8825 Per Dozen.....	.375
------------------	---------------------	------



No. 8765.

<i>Lusterless</i>	8765 5½ in. diameter, 4 in. high, 2½ in. holder, per doz..	6.50
-------------------	--	------



No. 8766.

<i>Luster</i>	8766 5 in. diameter, 4 in. high, 2½ in. holder, per doz..	7.50
---------------	---	------



No. 8767.

<i>Lustrous</i>	8767 5½ in. diameter, 4 in. high, 2½ in. holder, per doz..	8.00
-----------------	--	------



No. 8768.

Etched Electric Globes—Glass—(Continued).

Code Word.	List No.	List Price.
<i>Lusciously</i>	8768 5½ in. diameter, 4 in. high, 2¼ in. holder, per doz	\$8.50



No. 8769.

<i>Luscious</i>	8769 5 in. diameter, 4 in. high, 2¼ in. holder, per doz.	15.00
-----------------	---	--------------



No. 8826.

<i>Coruscate</i>	8826 Per dozen.....	4.00
------------------	----------------------------	-------------



No. 8827.

<i>Lurch</i>	8827 5 in. diameter, 3½ in. high, 2½ in. holder, per doz	12.50
--------------	---	--------------



No. 8828.

<i>Lurching</i>	8828 5 in. diameter, 4 in. high, 2½ in. holder, per doz.	15.00
-----------------	---	--------------



No. 8829.

<i>Lurid</i>	8829 5½ in. diameter, 4½ in. high, 2½ in. holder, per doz.	4.75
--------------	---	-------------



No. 8876.



No. 8877



No. 8862.



No. 8867.



No. 8868.



No. 8873.

Etched Electric Globes—Glass—(Continued).

Code Word.	List No.	List Price.
<i>Lurking</i>	8876	5½ in. diameter, 4 in. high, 2½ in. holder, per doz. \$2.25

<i>Luring</i>	8877	6 in. diameter, 4 in. high, 2½ in. holder, per doz. 5.00
---------------	------	--

Colored Electric Globes—Glass.

			Inch Diam.	Inch High.	Inch Holder.	Per Doz.
<i>Liveliness</i>	8857	Pink opalescent,	5½	4½	2½	7.50
<i>Lively</i>	8858	Ruby "	5½	4½	2½	7.50
<i>Livery</i>	8859	Light blue "	5½	4½	2½	3.75
<i>Livid</i>	8860	Flint "	5	4½	2½	3.75
<i>Lividness</i>	8861	Amber "	5½	4½	2½	3.75

<i>Living</i>	8862	Pink opalescent,	4½	5	2½	7.50
<i>Lizard</i>	8863	Ruby "	4½	5	2½	7.50
<i>Loadstone</i>	8864	Flint "	4½	5	2½	3.50
<i>Loafer</i>	8865	Light blue "	4½	5	2½	3.50
<i>Loafing</i>	8866	Amber "	4½	5	2½	3.50

<i>Loam</i>	8867	Flint opalescent,	5	3½	2½	4.38
<i>Loathful</i>	8868	Ruby "	5	3½	2½	8.75
<i>Loathness</i>	8869	Flint "	6	3½	2½	3.75
<i>Loathsome</i>	8870	Ruby "	6	3½	2½	7.50
<i>Locality</i>	8871	"	7	3½	2½	4.90
<i>Locally</i>	8872	Ruby "	7	3½	2½	9.25

			Inch Diam.	Inch Long.	Inch Holder	
<i>Locate</i>	8873	Ruby opalescent,	4	6½	3½	12.00
<i>Lowly</i>	8874	Flint "	4	6½	3½	5.63
<i>Lowness</i>	8875	Crystal "	4	6½	3½	5.00



No. 23109.



No. 23110.



No. 23111.



No. 23112.



No. 23113.



No. 23114.



No. 23115.

New Patterns in Standard Shades.

W. A. Fluted Etched Shade.

Code Word. List No.

Simple 23109 Shade 4 x 4 in. for 2½ in. holder... List Price
Per Doz
\$5.30

W. A. Electric.

Simpleness 23110 3½ in. high, 4½ in. wide, for 2½ in. holder..... 5.00

Diamond Etched.

Simpler 23111 4 in. high, 5½ in. wide, for 2½ in. holder..... 9.00

Simpleness 23112 4 in. high, 4½ in. wide, for 2½ in. shade holder..... 9.00

Simplician 23113 4½ in. high, 4½ in. wide, for 2½ in. shade holder..... 9.00

Simplify 23114 4½ in. high, 5 in. wide, for 2½ in. shade holder..... 9.00

Rough Etched Maple Leaf.

Simplify 23115 4½ in. high, 5½ in. wide, for 2½ in. shade holder..... 7.00

The black background on shades represents clear glass.

Shades

Etched Shades.



No. 21729.

Code Word.	List No.	List Price. Per Doz.
<i>Segregate</i>	21729 Etched	\$3.00



No. 21730.

<i>Segneurial</i>	21730 Pearl Etched	4.50
-------------------	--------------------------	------



No. 21731.

<i>Seignior</i>	21731 Pearl Etched	4.50
-----------------	--------------------------	------



No. 21732.

<i>Seignory</i>	21732 Pearl Etched, ribbed	4.50
-----------------	----------------------------------	------



No. 21733.

<i>Seine</i>	21733 Pearl Etched	4.50
--------------	--------------------------	------



No. 21734.

<i>Seize</i>	21734 Pearl Etched	4.50
--------------	--------------------------	------



No. 21735.



No. 21736.



No. 21737.

Shades

Roughed Inside.

Code Word.	List No.		List Price. Per Doz.
<i>Seldom</i>	21735	4½ in. diam. 5½ in. high, crimped top	\$7.50
<i>Select</i>	21736	4½ " 5½ "	7.00
<i>Selectman</i>	21737	3½ " 5½ "	6.00

Silver Etched.

<i>Self</i>	21738	3½ in. diam. 5½ in. high, scalloped top,	18.00
<i>Selfish</i>	21739	3½ " 5½ " plain top	15.00
<i>Selfsame</i>	21740	4½ " 5½ " scalloped top,	18.00
<i>Selvaige</i>	21741	4½ " 5½ " plain top	15.00
<i>Semaphone</i>	21742	3½ " 5½ " twist ruby	9.00
<i>Semblance</i>	21743	3½ " 5½ " twist flint opalescent	6.00



No. 21739.



No. 21740.



No. 21741.



No. 21744.



No. 21745.



No. 21746.

<i>Seminary</i>	21744	5½ in. diam. 4 in. high, etched pau	5.00
<i>Semitic</i>	21745	4½ " 4½ " silver etched, plain top	9.00
<i>Semitone</i>	21746	5½ in. diam. 4 in. high, etched pan	5.00

Crimped.

<i>Sempstress</i>	21747	5 in. diam. 4½ in. high, etched	7.50
<i>Senate</i>	21748	5½ " 4½ " " "	5.00
<i>Senator</i>	21749	5 " 4½ " " " roughed inside	7.00



No. 21747.



No. 21748.



No. 21749.



No. 21750.



No. 21751.



No. 21752.

<i>Senatorial</i>	21750	4½ in. diam. 5½ in. high, silver etched scalloped top	12.00
<i>Senate</i>	21751	4½ in. diam. 4 in. high, rich cut	14.00
<i>Semility</i>	21752	4½ " 5½ " silver etched plain top	16.00

Rich Cut.

<i>Senior</i>	21753	4½ in. diam. 5½ in. high	54.00
<i>Senority</i>	21754	4½ " 5½ " " "	60.00
<i>Sensation</i>	21755	4½ " 5 " " "	44.00



No. 21753.



No. 21754.



No. 21755.

All Shades on this page for 2½ in. holder.



No. 21756.



No. 21757.

Silver Etched, Scalloped Top.

Code Word.	List No.	List Price. Per Doz.
<i>Sense</i>	21756 5 in. diam., 3½ in. high.....	\$17.00

Silver Etched and Cut, Beveled Top.

<i>Sensibility</i>	21757 5½ in. diam., 4 in. high.....	20.00
--------------------	-------------------------------------	-------



No. 21758.



No. 21759.

Silver Etched, Plain Top.

<i>Sensible</i>	21758 4½ in. diam., 4½ in. high.....	17.00
<i>Sensitive</i>	21759 5 " 4½ "	18.00



No. 21760.



No. 21761.

Silver Etched and Rich Cut, Scalloped Top.

<i>Sensorial</i>	21760 5½ in. diam. 4 in. high.....	24.00
<i>Sensorium</i>	21761 5½ " 4 "	24.00



No. 21762.



No. 21763.

Cut and Etched.

<i>Sensory</i>	21762 Scalloped Top, 6 in. diam. 4 in. high...	24.00
<i>Sentence</i>	21763 " 5½ " 3½ "	14.50
<i>Sententious</i>	21764 Plain Top, 5½ " 3½ "	12.50

No. 21764 is the same in finish as No. 21763.



No. 21765.



No. 21766.

Cut and Etched.

<i>Sentient</i>	21765 Melon Beaded Top, 5 in. diam. 4 in. high,	32.00
<i>Sentiment</i>	21766 Corrugated, Scalloped Top, 5 in. diam., 3½ in. high.....	32.00



No. 21767.



No. 21768.

Rich Cut, Scalloped Top.

<i>Sentimental</i>	21767 5 in. diam., 4½ in. high.....	50 00
<i>Sentinel</i>	21768 4½ " 4½ "	30.00



No. 21769.



No. 21770.

Rich Cut, Scalloped Top.			List Price.
Code Word.	List No.		
<i>Sentry</i>	21769	4 in. diam., 5 in. high, per doz.	\$55.00
<i>Separable</i>	21770	Melon, 5 in. diam., 5 in. high, per doz.	28.00



No. 21771.



No. 21772.

Rich Cut, Scalloped Top.			
<i>Separatist</i>	21771	4½ in. diam., 4 in. high, per doz.	56.00
<i>Septuagint</i>	21772	4½ " 4½ " " "	48.00

Rich Cut and Etched Ball.

<i>Septennial</i>	21773	6-inch, 3½ inch holder, each	6.25
<i>Sepulcher</i>	21774	7-inch, 3½ " " "	7.50
<i>Sepulchral</i>	21775	8-inch, 3½ " " "	8.50
<i>Sepulture</i>	21776	10-inch, 3½ " " "	13.00
<i>Sequacious</i>	21777	12-inch, 3½ " " "	20.00



No. 21773.



No. 21778.

Rich Cut Bulb.			
<i>Sequel</i>	21778	5½ in. diam., 5½ in. length, 3½ in. holder, per doz.	120.00



No. 21779.



No. 21780.

Rich Cut Bulbs			
<i>Sequence</i>	21779	4 in. diam., 5½ in. length, 3½ in. holder, per doz.	75.00
<i>Sequester</i>	21780	4 in. diam., 5½ in. length, 3½ in. holder, per doz.	60.00



No. 21781.



No. 21782.

Rich Cut.			
<i>Sequestrate</i>	21781	Bulb, 4 in. diam., 5½ in. length, 3½ in. holder, per doz.	50.00
<i>Sequestration</i>	21782	Stalactite, 4 in. diam., 5½ in. length, 3½ in. holder, per doz.	45.00

Shades

Twist Stalactites.

	Code Word.	List No.	Price List. Per doz
<i>Severity</i>	21819	Flint Opalescent, 7 in. diam., 9 in. length, 5 in. holder.....	\$12.00
<i>Sweeter</i>	21820	Crystal, 7 in. diam., 9 in. length, 5 in. holder.....	12.00

Plain Stalactite, Roughed Inside.

<i>Serile</i>	21821	7 in. diam., 10 in. length, 4 in. holder,	24.00
---------------	-------	---	-------

Rich Cut Bulb.

<i>Serlou</i>	21822	Large, 4½ in. diam., 6 in. length, 3½ in. holder.....	50.00
<i>Shabby</i>	21823	Small, 4 in. diam., 5½ in. length, 3½ in. holder.....	45.00
<i>Shuickle</i>	21824	4 in. diam., 5½ in. length, 3½ in. holder,	52.00

Rich Cut Stalactite.

<i>Shadow</i>	21825	4 in. diam., 8 in. length, 3½ in. holder,	60.00
<i>Shuft</i>	21826	4 " " 8 " 3½ " "	75.00

Rich Cut Stalactite.

<i>Shay</i>	21827	Silver Etched, 4½ in. diam., 8½ in. length, 3½ in. holder.....	24.00
<i>Shaggy</i>	21828	4½ in. diam., 8½ in. length, 3½ in. holder,	75.00



No. 21819.



No. 21821.



No. 21822.



No. 21824.



No. 21825



No. 21826.



No. 21827.



No. 21828.

Shades—



No. 21783.



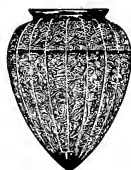
No. 21784.



No. 21785.



No. 21786.



No. 21787.



No. 21788.



No. 21789.



No. 21793.



No. 21795.



No. 21796.

Etched.

Code Word.	List No.		List Price. Per doz.
<i>Seraph</i>	21783	Rich cut, $4\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder.....	\$ 22.00
<i>Seraglio</i>	21784	Stalactite, $4\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder	9.00

Etched Stalactite.

<i>Seraphic</i>	21785	Rich cut, 5 in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder.....	32.00
<i>Seraphim</i>	21786	Melon, 5 in. diam. $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder,	10.00

Etched Stalactite.

<i>Serapis</i>	21787	Melon, 5 in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder,	12.00
<i>Serenade</i>	21788	Rich cut, $4\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder	20.00

Twist Melon Bulb.

<i>Serene</i>	21789	Flint Opalescent, $5\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder.....	8.00
<i>Serenity</i>	21790	Crystal, $5\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. long, $3\frac{1}{4}$ in. holder,	7.50

Twist Bulb.

<i>Serf</i>	21792	Ruby, $5\frac{1}{2}$ in. diam. $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder,	13.00
<i>Sergeant</i>	21793	Flint Opalescent, $5\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder.....	6.00
<i>Seriel</i>	21794	Crystal, $5\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder.....	5.50

Rich Cut.

<i>Serious</i>	21795	Bulb, 5 in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder,	22.00
<i>Serjeant</i>	21796	Stalactite, $4\frac{1}{2}$ in. diam., $6\frac{1}{2}$ in. length, $3\frac{1}{4}$ in. holder	28.00

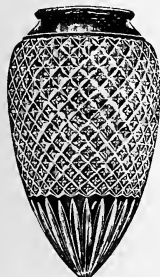


No. 21797.

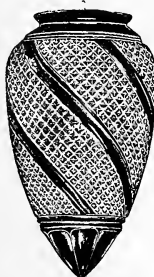


No. 21798.

Code Word.	List No.		Price List.
<i>Sermon</i>	21797	4 in. diam. 8 in. length, $3\frac{1}{4}$ in. holder, per doz.....	\$26.00
<i>Serons</i>	21798	with dish, 4 in. diam. 8 in. length, $3\frac{1}{4}$ in. holder, per doz.....	120.00
<i>Serpentine</i>	21799	without dish, 4 in. diam. 8 in. length, $3\frac{1}{4}$ in. holder, per doz.....	70.00



No. 21800.



No. 21801.

Rich Cut Stalactites.			
<i>Serrate</i>	21800	$4\frac{1}{2}$ in. diam. $8\frac{1}{4}$ in. length, $3\frac{1}{4}$ in. holder, per doz.....	62.50
<i>Serum</i>	21801	$4\frac{1}{2}$ in. diam. $8\frac{1}{4}$ in. length, $3\frac{1}{4}$ in. holder, per doz.....	90.00



No. 21802.

Silver Etched Ball.			
<i>Servant</i>	21802	6-inch, per doz.....	17.00
<i>Serve</i>	21803	7-inch, ".....	24.00
<i>Servise</i>	21804	8-inch, ".....	30.00
<i>Servile</i>	21805	10-inch, ".....	40.00
<i>Servitor</i>	21806	12-inch, ".....	70.00
<i>Servitude</i>	21807	14-inch, ".....	100.00
<i>Session</i>	21808	16-inch, ".....	150.00



No. 21809.

Crackle, Rich Cut Ball.			
<i>Sesspool</i>	21809	6-inch, each.....	5.50
<i>Setaceous</i>	21810	7-inch, ".....	7.50
<i>Sete</i>	21811	8-inch, ".....	10.00
<i>Settee</i>	21812	10-inch, ".....	16.00
<i>Setor</i>	21813	12-inch, ".....	22.00

Crackle, No Cutting.			
<i>Settler</i>	21814	6-inch, each.....	2.50
<i>Sever</i>	21815	7-inch, ".....	3.00
<i>Severel</i>	21816	8-inch, ".....	3.75
<i>Severally</i>	21817	10-inch, ".....	6.00
<i>Severe</i>	21818	12-inch, ".....	9.00



No. 21829.

Silver Etched Bowl.

Code Word.	List No.	List Price.
<i>Shah</i>	21829 12½-inch, each	\$10.00
<i>Shake</i>	21830 14-inch, "	12.50
<i>Shale</i>	21831 15-inch, "	17.50
<i>Shuttop</i>	21832 16-inch, "	25.00
<i>Shallow</i>	21833 18-inch, "	40.00



No. 21834.

Rich Cut Bowl, "Jewel."

<i>Shum</i>	21834 10-inch, each	18.00
<i>Shumble</i>	21835 12½-inch, "	30.00
<i>Shurme</i>	21836 14-inch, "	45.00
<i>Shummy</i>	21837 16-inch, "	75.00

Aluminum Lined Reflectors.

These Reflectors are made of tin, japanned a dark green on the outside, and lined with a sheet of polished aluminum. The tin forms a strong, stiff support for the thin aluminum, the two being wired or seamed together at the top and bottom edges.

The aluminum is very highly polished, and being almost chemically pure, it will not tarnish by exposure to the atmosphere and moisture. It therefore forms an ideally perfect reflecting surface of the highest efficiency and durability.

The Reflectors are fluted by an improved method, the curvature of the flutings in each style being carefully calculated so as to produce a uniform intensity of light over the area to be lighted, without wasting any portion of it by double reflection, or by throwing it where it will be of no use.

These Reflectors are unbreakable, and they are much lighter in weight than glass.



PAT. APPLIED FOR.

No. 23079.



PAT. APPLIED FOR.

No. 23081.

<i>Silca</i>	23079	No. 101	10-inch, to fit 2½ holder, each	.90
<i>Sileunite</i>	23081	No. 201	10-inch, " 2½ " " "	.80

"X Ray" Silvered Glass Reflectors.

Aluminum Finish on Backs.



No. 21838.



Code Word.	List No.	List Price. Per Doz.
<i>Shampoo</i>	21838 5½ in. diam. 2 in. deep.....	\$10.00



No. 21839.



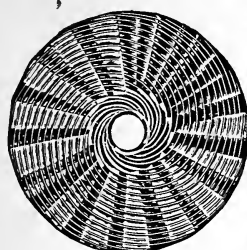
<i>Shank</i>	21839 6½ in. diam. 2½ in. deep	10.00
--------------	--------------------------------------	-------



No. 21840.



<i>Shant</i>	21840 7 in. diam. 1½ in. deep	11.25
Adapted for ceiling and wall lighting.		



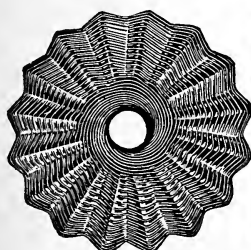
No. 21841.



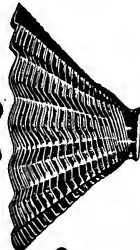
<i>Shatter</i>	21841 8 in. diam.....	13.35
<i>Shave</i>	23842 10 in. diam.....	17.50

<i>Shaver</i>	21843 6 in. diam. 3¼ in. deep	10.00
<i>Shawl</i>	21844 7 " 4 "	11.25
<i>Sheaf</i>	21845 8 " 5 "	13.25
<i>Shear</i>	21846 10 " 5½ "	17.50

19



No. 21843.



Flat Reflectors.

With Twist or Straight Ribs.

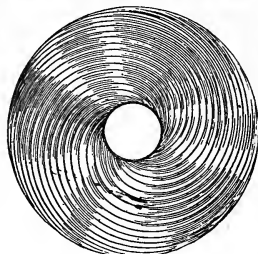
<i>Shedra</i>	21847 10 in. diam. 2½ in. holder	13.75
<i>Sheath</i>	21848 12 " 2½ "	16.25
<i>Sheathe</i>	21849 14 " 2½ "	20.00
<i>Shekinah</i>	21850 16 " 3½ "	27.50
<i>Sheen</i>	21851 18 " 3½ "	35.00



Silvered Glass Reflectors.

Flat Spiral Corrugated.

Code Word.	List No.		List Price.
<i>Logical</i>	2355	8 inch diameter, $2\frac{1}{4}$ inch holder, per dozen.....	\$8.00
<i>Logically</i>	2356	10 " " " $2\frac{1}{4}$ " " " ".....	9.00
<i>Logician</i>	2357	12 " " " $2\frac{1}{4}$ " " " ".....	13.75
<i>Logwood</i>	2358	14 " " " $2\frac{1}{4}$ " " " ".....	17.50
<i>Loin</i>	2359	16 " " " $2\frac{1}{4}$ " " " ".....	20.00
<i>Loiter</i>	2360	18 " " " $2\frac{1}{4}$ " " " ".....	26.25
<i>Loneliness</i>	2361	20 " " " $2\frac{1}{4}$ " " " ".....	37.50
<i>Lonely</i>	2362	22 " " " $2\frac{1}{4}$ " " " ".....	45.00

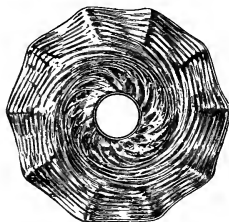


No. 2355.



Scalloped Silvered Shade.

<i>Lonesome</i>	2363	7 inch diameter, $2\frac{1}{4}$ inch holder, per dozen.....	9.00
<i>Looming</i>	2364	8 " " " $2\frac{1}{4}$ " " " ".....	10.00
<i>Loom</i>	2365	10 " " " $2\frac{1}{4}$ " " " ".....	12.00

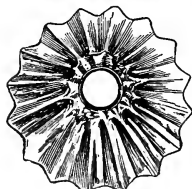


No. 2363.

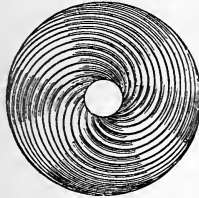
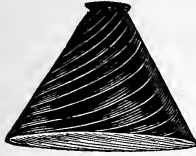


Radial Fluted.

<i>Loose</i>	2366	7 inch diameter, $2\frac{1}{4}$ inch holder, per dozen.....	9.00
<i>Loosely</i>	2367	8 " " " $2\frac{1}{4}$ " " " ".....	10.00
<i>Loosen</i>	2368	10 " " " $2\frac{1}{4}$ " " " ".....	12.00



No. 2366.



No. 2369.

Silvered Glass Reflectors—(Continued).

Deep Spiral Corrugated.

Code Word.	List No.	List Price.
<i>Looseness</i>	2369	7 inch diameter, 2½ inch holder, per dozen \$8.00
<i>Loosening</i>	2370	10 " " 2½ " " " "12.00



No. 2733.

McCreary Standard Reflector Shade.

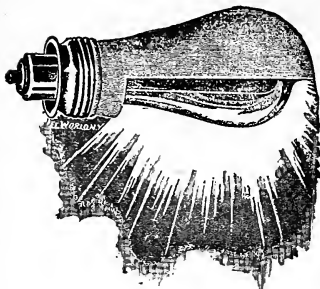
<i>Lintel</i>	2733	7 inch Shade; size of opening at top, 2½ inches requires a 3½ inch holder; will take a 16, 20 or 24 candle-power lamp, per dozen .....18.00
<i>Lioness</i>	2734	8 inch shade; size of opening at top, 2½ inches; requires a 3½ inch holder; will take a 16, 20 or 24 candle-power lamp, per dozen.....21.00
<i>Liontze</i>	2735	9 inch Shade; size of opening at top, 3½ inches; requires a 4 inch holder; will take a 32 candle-power lamp, per dozen.....33.00
<i>Liquidate</i>	2736	12 inch Shade; size of opening at top, 3½ inches; requires a 4 inch holder; will take a 50 candle-power lamp, per dozen.....51.00

In ordering, state kind of lamp to be used and candle-power.



No. 3997.

<i>Liquidated</i>	2779	Shade Holder for Standard Shade, Edison Socket, per dozen.....2.25
<i>Liquidating</i>	2779B	Shade Holder for Standard Shade, Westinghouse Socket, per dozen.....3.00
<i>Liquor</i>	2780	Mica Dust Protector for 7 and 8 inch Standard Shades, per dozen......75
<i>Lisbon</i>	2781	Mica Dust Protector for 9 and 12 inch Standard Shades, per dozen.....1.50
<i>Lightening</i>	3997	Opaque Green, with Ground Glass Bottom, 8½x8 inches, per dozen.....21.00



No. 2737.

McCreary Half Reflector Shade.

For 16 Candle-Power Lamps.

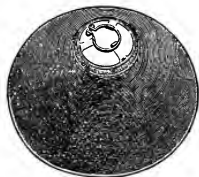
Code Word.	List No.	List Price.
<i>Lingo</i>	2737 Opal, per dozen.....	\$6.00
<i>Lingual</i>	2738 Silvered ".....	8.00
<i>Linguis</i>	2739 Colored ".....	7.00
<i>Lintment</i>	2740 Aluminium ".....	8.00

Including Metal Tops.

For 32 Candle-Power Lamps.

<i>Linking</i>	2741 Opal, per dozen.....	7.00
<i>Linnet</i>	2742 Silvered ".....	10.00
<i>Lingseed</i>	2778 Colored ".....	8.00

Including Metal Tops.



No. 2777.

"Cartwright" Paper Waterproof Lamp Shade.

For Any Socket.

These are made with the white and green surface, and can be washed in either cold or lukewarm water without destroying the texture of the fibre, the fibre being thoroughly impregnated with a waterproof material. Any dust or fly specks that can be removed from any surface can be removed from this Lamp Shade without injury to the surface or fibre of same.

<i>Lingering</i>	2777 "Cartwright" Paper Shades, per dozen.....	4.80
------------------	--	------



No. 8731.

Utility Shades.

Made of Celluloid or Cardboard.

<i>Hastiness</i>	8731 10 inch. Cardboard, per dozen.....	2.00
<i>Hasty</i>	8732 8 inch, Cardboard, per dozen.....	1.80
<i>Hatchway</i>	8734 8 inch, Celluloid, single sheet, polished two sides, per dozen.....	4.80
<i>Hateful</i>	8735 8 inch, Celluloid, opaque, white lined, per dozen.....	7.20
<i>Hatefully</i>	8736 8 inch, Celluloid, transparent, white lined, per dozen.....	7.80



No. 8732.



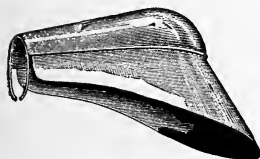
No. 8737.



No. 8747.



No. 2798.



No. 2792.



No. 2793.

Utility Shades—(Continued).

Code Word.	List No.	List Price.
<i>Hatefulness</i>	8737	10 inch, Cardboard, per dozen \$2.00
<i>Hated</i>	8739	10 inch, Celluloid, single sheet, polished two sides, per dozen 5.00
<i>Hatcock</i>	8740	10 inch, Celluloid, opaque, white lined, per dozen 8.00
<i>Haughtiness</i>	8741	10 inch, Celluloid, transparent, white lined, per dozen 8.50
<i>Haughty</i>	8747	12 inch, Cardboard, per dozen 3.00
<i>Haunt</i>	8748	12 " Celluloid, opaque, white lined, per dozen 13.00

Prices include Shade Holder.

FULL CONE.

<i>Accomplishment</i>	25484	8 inch, Cardboard.....	2.00
<i>Accourt</i>	25485	8 " Celluloid, white lined, green	7.50
<i>Accoutrements</i>	25486	10 inch, Cardboard	2.50
<i>Arcny</i>	25487	10 " Celluloid, green, white lined	10.00

Miscellaneous Metal Shades.

Bowling Alley Shade.

This Shade is suspended from a fixed point by the incandescent conducting cord, as shown in the cut. The cord, after leaving the socket, passes around the edge and through a metal slide which travels from center of Shade to the upper edge on the wire strip. By moving this slide either to the right or left the position of the Shade is regulated.

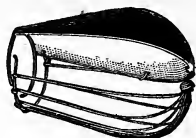
<i>Lignitic</i>	2798	Japanned Green, each.....	1.25
-----------------	------	---------------------------	------

Billiard Shades.

<i>Likelihood</i>	2792	Extra Deep, each.....	.70
<i>Likeness</i>	2797	" with Combination Holder (see No. 2743), each .....	.80

Metal Half Shades.

<i>Likening</i>	2793	Japanned Green Outside, White Enamel Inside, each40
-----------------	------	---	-----

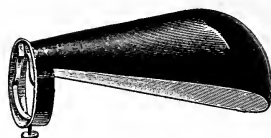


No. 2794.

Miscellaneous Metal Shades—(Continued).

Metal Half Shades—With Wire Guard.

Code Word.	List No.	List Price.
<i>Likewise.</i>	2794	Japanned Green Outside, each.....\$0.50



No. 2800.

Metal Half Shade—With Combination Holder.

<i>Liking</i>	2800	Japanned Green, per dozen.....	5.00
<i>Lilac</i>	2801	“ “ with Wire Guard, per dozen...	8.00

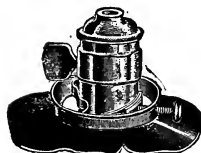
See cut of Shade No. 2743, which shows manner in which it is used.

Only one set-screw used. Saves time in adjusting socket.

Metal Shades and Reflectors.

“Marten” Combination Shade and Holder.

(Patented.)

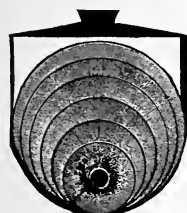


No. 2743.

<i>Abyss</i>	2743	6 inch, Flat, Green and White Enamel, per doz.	2.35
<i>Accede</i>	2744	7 “ “ “ “ “ “ “	2.35
<i>Acceded</i>	2745	8 “ “ “ “ “ “ “	2.35
<i>Criminal</i>	2746	10 “ “ “ “ “ “ “	2.85
<i>Criminate</i>	2747	12 “ “ “ “ “ “ “	3.60
<i>Criminating</i>	2748	14 “ “ “ “ “ “ “	4.35
<i>Cuthbert</i>	2749	16 “ “ “ “ “ “ “	5.60
<i>Cynthia</i>	2750	18 “ “ “ “ “ “ “	6.60
<i>Acceding</i>	2751	8 in., Half Deep, Green and White Enamel, per doz.	2.35
<i>Accelerate</i>	2752	10 “ “ “ “ “ “ “	2.85
<i>Accession</i>	2753	12 “ “ “ “ “ “ “	3.60
<i>Cricketer</i>	2754	14 “ “ “ “ “ “ “	4.35
<i>Crier</i>	2755	16 “ “ “ “ “ “ “	5.60
<i>Crime</i>	2756	18 “ “ “ “ “ “ “	6.60
<i>Accidental</i>	2757	8 in., Full Cone, Green and White Enamel, per doz.	2.85
<i>Acclaim</i>	2758	10 “ “ “ “ “ “ “	3.60
<i>Acclamation</i>	2759	12 “ “ “ “ “ “ “	4.60

Only one set-screw used instead of (4) four, as in ordinary Holders heretofore sold.

Metal Shades and Reflectors—(Continued).



No. 2760.

Flat Tin Shades.

Code Word.	List No.	List Price.
<i>Abstain</i>	2760	6 inch, Japanned Green Outside, Enameled White Inside, per dozen..... \$1.75
<i>Absterge</i>	2761	7 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 1.75
<i>Abstract</i>	2762	8 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 1.75
<i>Absurd</i>	2763	10 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 2.25
<i>Absurdity</i>	2764	12 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 3.00
<i>Harmlessly</i>	2765	14 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 3.75
<i>Harmlessness</i>	2766	16 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 5.00
<i>Harmonic</i>	2767	18 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 6.00

Fitted for 2½ inch and 3½ inch Holders, and Edison Holder. Other sizes to order.

Any of the above Shades fitted with ½ x ½ inch pipe connections for bracket work at 10 cents each, net, extra.

Half Deep Tin Shades.

SIMILAR TO No. 2760, BUT A LITTLE DEEPER.



No. 2763.

<i>Absurdly</i>	2768	8 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 1.75
<i>Abundance</i>	2769	10 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 2.25
<i>Abusing</i>	2770	12 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 3.00
<i>Abusive</i>	2771	14 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 3.75
<i>Castellated</i>	2772	16 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 5.00
<i>Castle</i>	2773	18 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 6.00

Fitted for 2½ inch and 3½ inch Holders, and Edison Holder. Other sizes to order.

We can also furnish any of the above Japanned White Enamel both sides.

Cone Tin Shades.



No. 2774.

<i>Abut</i>	2774	8 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 2.25
<i>Abutment</i>	2775	10 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 3.00
<i>Abutting</i>	2776	12 inch, Japanned Green Outside, Enameled White Inside, per dozen..... 4.00

Fitted for 2½ inch and 3½ inch Holders. Other sizes to order.



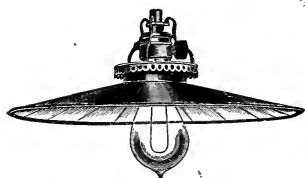
No. 21862.

Code Word.

Sherbet
Sheriff
Sherry

List No.

21862	No. 121	7-inch, to fit 2½ holder.....	\$ 1.00
21863	No. 122	10-inch, " " ".....	1.05
21864	No. 123	12-inch, " " ".....	1.25

Price List
Each.

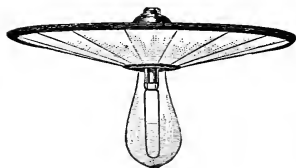
No. 21865.

Shew
Shev'n
Shibboleth
Shield
Shiftless

Flat Cone.

For use where it is desired to spread the light. Its silver-plated mirror-plate lining makes it most effective and pleasing, and always as good as new.

21865	No. 131	10-inch, to fit 2½ holder.....	.90
21866	No. 132	12-inch, " " ".....	1.00
21867	No. 133	14 inch, " " ".....	1.25
21868	No. 134	16-inch, " " ".....	1.65
21869	No. 135	18-inch, " " ".....	2.10



No. 21870.

Shilling
Shilby
Shilly
Shimmer
Shin

Convex.

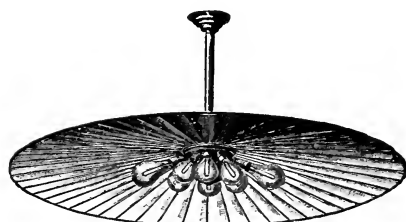
Reflecting slightly below the horizontal in all directions.

Used in stores, etc., for general illumination.

21870	No. 141	10-inch, to fit 2½ holder.....	.90
21871	No. 142	12-inch, " " ".....	1.00
21872	No. 143	14-inch, " " ".....	1.25
21873	No. 144	16 inch, " " ".....	1.65
21874	No. 145	18-inch, " " ".....	2.10

For Incandescent Clusters.

Style No. 158.



No. 21875.

<i>Shingle</i>	21875	No. 151 20-in. Reflector only, fits ½ iron pipe.....	3.00
<i>Shinney</i>	21876	No. 152 24-in. Reflector only, fits ½ iron pipe.....	4.50
<i>Shinto</i>	21877	No. 153 30-in. Reflector only, fits ½ iron pipe.....	7.00
<i>Shire</i>	21878	No. 154 35-in. Reflector only, fits ½ iron pipe.....	10.00
<i>Shirk</i>	21879	No. 155 20-in. complete, 3 lights, wired.....	6.00
<i>Shirred</i>	21880	No. 156 24-in. " 4 " ".....	7.75
<i>Shirting</i>	21881	No. 157 30-in. " 6 " ".....	10.75
<i>Shite</i>	21882	No. 158 35-in. " 8 " ".....	14.00

Frink's Patent Reflectors,

For Electric Lights in Churches, Halls, Banks, Stores, Store Windows, Schools, Hospitals, Office Buildings, Factories, Etc.

Frink's Deep Reflecting Shade.

Enameled dark green outside, lined with Silvered Corrugated, mirror or opal glass. To throw the light downward. Adapted for stores, store windows, desks and places where a number of lamps are scattered over the ceiling or in clusters; the shade reflects the light down where needed, and greatly increases the light at a minimum of expense.



No 25498.

Code Word.	List No.	F No	Diam. in In.	Glass	For Holder.	List Price Each.
<i>Accrue</i>	25498	2495	8.....	Mirror	2½ inch	\$1.35
<i>Accrument</i>	25499	2496	8.....	Corrugated	2½ "	1.45
<i>Accubation</i>	25500	2397	10.....	Mirror	2½ "	1.50
<i>Accubitus</i>	25501	2396	10.....	Corrugated	2½ "	1.70
<i>Accumb</i>	25502	2445	12.....	Mirror	2½ "	1.80
<i>Accumbency</i>	25503	2446	12.....	Corrugated	2½ "	2.00

Frink's Flat Reflecting Shade.

For stores, factories, workshops, ceiling lights and general use.



No. 25504.

<i>Accumbent</i>	25504	2399	10.....	Mirror	2½ inch	1.00
<i>Accumulation</i>	25505	2398	10.....	Corrugated	2½ "	1.10
<i>Accumulative</i>	25506	2459	12.....	Mirror	2½ "	1.30
<i>Accumulatively</i>	25507	2460	12.....	Corrugated	2½ "	1.60
<i>Accumulator</i>	25508	2463	14.....	Mirror	2½ "	1.60
<i>Accurately</i>	25509	2464	14.....	Corrugated	2½ "	1.80
<i>Accursed</i>	25510	2465	14.....	Mirror	3½ "	1.60
<i>Accusable</i>	25511	2466	14.....	Corrugated	3½ "	1.80
<i>Accusant</i>	25512	2467	16.....	Mirror	2½ "	2.25
<i>Accusative</i>	25513	2468	16.....	Corrugated	2½ "	2.60
<i>Accusatively</i>	25514	2469	16.....	Mirror	3½ "	2.25
<i>Accusatorial</i>	25515	2470	16.....	Corrugated	3½ "	2.60
<i>Accusatory</i>	25516	2473	18.....	Mirror	3½ "	2.75
<i>Accuse</i>	25517	2474	18.....	Corrugated	3½ "	3.15
<i>Acenric</i>	25518	2497	20½.....	Mirror	3½ "	3.50
<i>Acephul</i>	25519	2498	20½.....	Corrugated	3½ "	4.00

Lined with opal glass, when ordered, at same price as for mirror.

Ten inch flat and deep shades furnished for Edison sockets without holders when so ordered.

Frink's Convex Reflecting Shade.



No. 25520.

<i>Acephulun</i>	25520	2475	10.....	Mirror	2½ inch	1.25
<i>Acephuli</i>	25521	2476	10.....	Corrugated	2½ "	1.40
<i>Acephulist</i>	25522	2479	12.....	Mirror	2½ "	1.50
<i>Acephulous</i>	25523	2480	12.....	Corrugated	2½ "	1.70
<i>Ac-point</i>	25524	2483	14.....	Mirror	2½ "	1.80
<i>Acer</i>	25525	2484	14.....	Corrugated	2½ "	2.00
<i>Acerb</i>	25526	2485	14.....	Mirror	3½ "	1.80
<i>Acerbutu</i>	25527	2486	14.....	Corrugated	3½ "	2.00
<i>Aceric</i>	25528	2489	16.....	Mirror	3½ "	2.25
<i>Acerise</i>	25529	2490	16.....	Corrugated	3½ "	2.60
<i>Acerous</i>	25530	2493	18.....	Mirror	3½ "	2.75
<i>Acerente</i>	25531	2494	18.....	Corrugated	3½ "	3.15

Frink's Combination Cluster Reflector.

Length, 30 inches, wired, without sockets or lamps.

Code Word.	List No.	F. No.	Diam. Reflector in in.	Entire Spread in in.	Glass	List Price Each.
<i>Acreration</i>	25532	2524	20½	23	Silvered Corrugated	\$13.50
<i>Acerose</i>	25533	2525	20½	23	Best Mirror	13.00
<i>Acarence</i>	25534	2526	20½	23	Opal	13.00

The above are with four gas burners and wired for four sockets; if ordered for more or less sockets, add or deduct fifteen cents, each.



No. 25532.

Frink's Sectional Glass Electric Cluster Reflectors.

With 3 to 8 lights, lined with Frink's silver-plated corrugated glass. Should be generally used for lighting stores, banks, waiting-rooms, depots, hospitals, schools, offices, factories, etc.

To obtain best results from cluster lights, use 20½-inch reflectors.

Reflector with cluster and stem 18 inches long, wired, but without sockets,

<i>Acency</i>	25535	2500	18	Silvered Corrugated	\$6.75
<i>Acptible</i>	25536	2501	20½	"	7.50

Reflector only, with four-lighted cluster, nipples and holder to receive ½-inch iron or ½-inch brass pipe.

<i>Acetale</i>	25537	2502	18	Silvered Corrugated	4.75
<i>Acetel</i>	25538	2503	20½	"	5.50

Reflector with cluster and stem 18 inches long, wired, without sockets.

<i>Acetated</i>	25539	2504	18	Silvered Corrugated	8.00
<i>Acetify</i>	25540	2505	20½	"	9.00

Reflector only, with four-light cluster, nipples and holder to receive ½-inch iron or ½-inch brass pipe.

<i>Acetometer</i>	25541	2506	18	Silvered Corrugated	6.00
<i>Acetimetry</i>	25542	2507	20½	"	7.00

Reflector with cluster and stem 18 inches long, wired, without sockets.

<i>Acetyle</i>	25543	2508	18	Best Mirror	6.25
<i>Acetilin</i>	25544	2509	20½	"	7.00

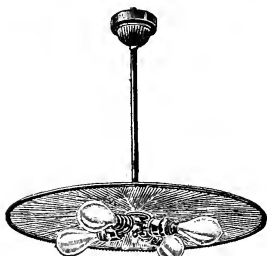
Reflector only, with four-light cluster, nipples and holder to receive ½-inch iron or ½-inch brass pipe.

<i>Acute</i>	25545	2510	18	Best Mirror	4.25
<i>Acutes</i>	25546	2511	20½	"	5.00

Wired for four sockets; if ordered for more or less sockets, add or deduct fifteen cents each, list.

These reflectors have solid metal frames, and are lined with silver-plated corrugated, mirror or opal glass in sections, rigidly held in place.

Reflector with cluster and stem 18 inches long, wired, without sockets.



No. 25535.



No. 25540.



No. 25544.

Frink's Sectional Glass Electric Cluster Reflectors.

—Continued.

Code Word.	List No.	F No.	Diam. in ins	Glass.	Price List. Each.
<i>Achean</i>	25547	2512	18.....	Best Mirror	\$7.50
<i>Acheenese</i>	25548	2513	20½.....	" "	8.00

Reflector only, with four-light cluster, nipples and holder to receive ½-inch iron or ½-inch brass pipe.

<i>Acherset</i>	25549	2514	18.....	Best Mirror	5.50
<i>Achievement</i>	25550	2515	20½.....	" "	6.50

Reflector with cluster and stem 18 inches long, wired, without sockets.

<i>Achiever</i>	25551	2516	18.....	Opal	6.25
<i>Achieve</i>	25552	2517	20½.....	" "	7.00

Reflector only, with four-light cluster, nipples and holder to receive ½-inch iron or ½-inch brass pipe.

<i>Achor</i>	25553	2518	18.....	Opal	4.25
<i>Achromatic</i>	25554	2519	20½.....	" "	5.00

Reflector with cluster and stem 18 inches long, wired, without sockets.

<i>Acidiferous</i>	25555	2520	18.....	Opal	7.50
<i>Acidifiable</i>	25556	2521	20½.....	" "	8.00

Reflector only, with four-light cluster, nipples and holder to receive ½-inch iron or ½-inch brass pipe.

<i>Acidification</i>	25557	2522	18.....	Opal	5.50
<i>Acidifier</i>	25558	2523	20½.....	" "	6.50

Wired for four sockets; if ordered for more or less sockets, add or deduct 15 cents each, list.

Frink's Suspended Reflecting Chandelier.

Double cone silver-plated corrugated glass, brass frame reflecting chandelier for electric light, for lighting churches, halls, theatres and public buildings. Trimmed with one row cut glass prisms, finished with brass crown bands and having outside lights.

Code Word.	List No.	Diam in Inches.	Number of Electric Lamps.	Price with Prisms.	Price without Prisms.
<i>Acidulate</i>	25563	25.....	10.....	\$60.00.....	50.00
<i>Acidulated</i>	25564	30.....	14.....	75.00.....	62.00
<i>Acidulous</i>	25565	35.....	16.....	95.00.....	80.00
<i>Aciform</i>	25566	40.....	18.....	115.00.....	95.00
<i>Acinaceous</i>	25567	50.....	27.....	145.00.....	115.00
<i>Acinaces</i>	25568	60.....	36.....	190.00.....	150.00
<i>Acinaciform</i>	25569	72.....	45.....	250.00.....	200.00
<i>Acintform</i>	25570	84.....	60.....	325.00.....	265.00

These reflectors will be made up in opal, instead of silver-plated corrugated glass, if preferred, at same price.

Price includes wiring, but no sockets or lamps.



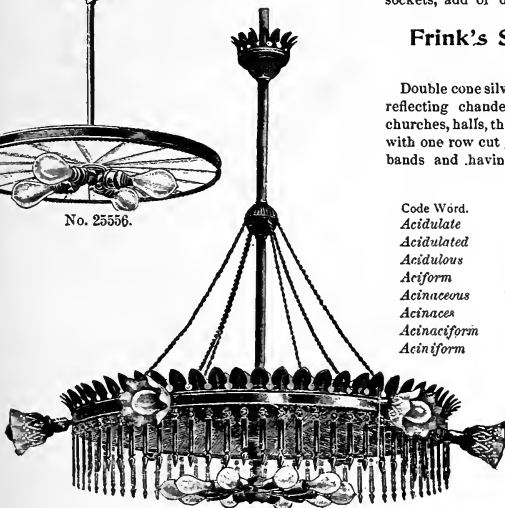
No. 25548.



No. 25552.



No. 25556.



Store Window Lighting.

Ninety-nine per cent. of store windows are imperfectly lighted, and especially so where electric lamps are used. Most of the lamps are scattered on the bottom and at the sides of the windows where they can be seen and where they attract more attention to themselves than to the goods they are imperfectly lighting. The ideal window light should light the goods and not be seen while doing so.

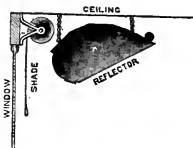
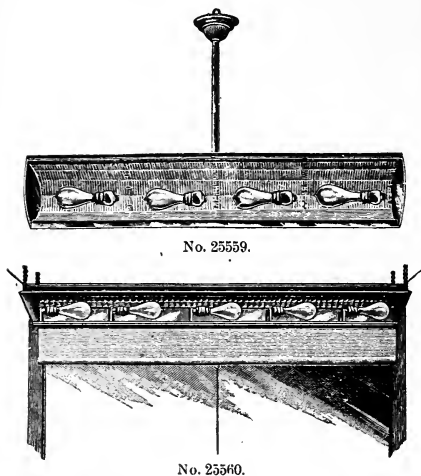
Frink's Special Patent Window Reflector,

for Electric Light, lined with silver-plated Corrugated Glass, is placed in top of window near the front glass, reflecting the light inward and downward. This makes a very desirable window reflector, as the reflectors are out of the way and concealed from view, at the same time concealing the direct light from the eyes of the observer, and giving a strong, even light where wanted, thus doing away with the annoyance of a dazzling light in the eyes. It is used also largely for lighting art galleries, pictures, stock exchange boards, border lights, telephone switch boards, etc.

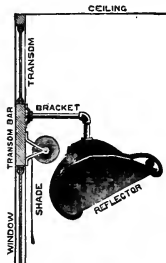
To get best results, reflectors should be used entire width of window with lamps 9 or 12 inches apart, as desired.

These fixtures are wired but do not include sockets and lamps—these are extra.

Suspended from ceiling with one or more stems as required.



No. 25560.
With loops to attach to ceiling with chain.



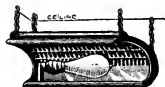
No. 25561.
With brackets to attach to the transom bar.

Code Word.
Acidify
Acidmeter
Acidimetry

List No		List Price per Running Foot.
25559	2415 Lined with silver-plated Corrugated Glass	\$4.00
25560	2415A Lined with silver-plated Corrugated Glass	4.00
25561	2415B Lined with silver-plated Corrugated Glass	4.00

To get the best results, reflectors should be used the entire width of windows, with lamps 9 or 12 inches apart as desired. When ordering please state if style No. 25559, No. 25560 or No. 25561 is desired.

Frink's Special Patent Single Lamp Window Reflector.



Acidness

List No		Each
25562	2499 Lined with silver-plated corrugated glass, ready for sockets and lamps	\$3.00



No. 21883.

Silver-Plated Mirror Reflectors.

For Incandescent Cluster.

Style No. 168.



No. 21891.



No. 21892.



No. 21893.



No. 21894.

Code Word.	List No.		List Price Each.
<i>Shiter</i>	21883	No. 161 20-in. reflector only (fits $\frac{3}{8}$ iron pipe).	\$5.75
<i>Shoal</i>	21884	No. 162 24-in. " " " $\frac{1}{2}$ " "	7.50
<i>Shoar</i>	21885	No. 163 30-in. " " " $\frac{1}{2}$ " "	10.50
<i>Shoot</i>	21886	No. 164 35-in. " " " $\frac{1}{2}$ " "	14.00
<i>Shock</i>	21887	No. 165 20-in. complete, 3 light wired	8.75
<i>Shoddy</i>	21888	No. 166 24-in. " 4 " "	10.75
<i>Shone</i>	21889	No. 167 30-in. " 6 " "	14.25
<i>Shook</i>	21890	No. 168 35-in. " 8 " "	18.00

Green Outside. Glossy Enamel White Inside.

			Per doz.
<i>Shoot</i>	21891	No. 319 7-in. diam., height $6\frac{1}{2}$ ins., per doz	4.00

Foot Light Reflector.

Green Outside. Bright Tin Inside.

<i>Shore</i>	21892	For $2\frac{1}{4}$ inch holder, per doz	6.00
--------------	-------	---	------

Pulpit Hood.

Bronze outside. White Enamel Inside.

<i>Shote</i>	21893	For $2\frac{1}{4}$ inch holder, each	3.00
--------------	-------	--------------------------------------	------

Billiard Reflector.

Green outside. White Enamel inside.

<i>Shout</i>	21894	For $2\frac{1}{4}$ inch holder, per doz	6.00
--------------	-------	---	------

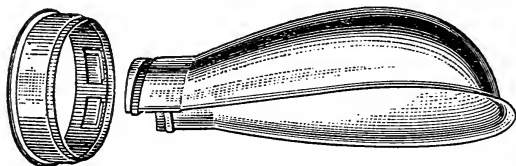


No. 21852.

The Crescent Shade.

This Shade has been designed to meet all the requirements of the users of Tin Shades. It is made of heavy tin, and the corrugation and shape are so arranged as to give the greatest reflecting power.

Code Word.	List No.	List Price. Per Doz.
<i>Sheep</i>	21852	Enameled White inside, Green outside... \$2.00
<i>Sheepish</i>	21853	Bright Tin inside, Imitation Brass " ... 1.50



No. 21854.

Aluminum Half-Shape Shade.

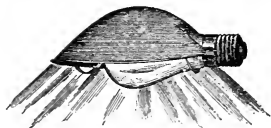
The shape of this half shade is such as to reflect the greatest possible light. The new patented holder also shown on the above cut, in which only one set screw is used, can be furnished when desired.

We have a new process of treating aluminum which gives it a silver finish, making it very much more beautiful in effect and softening the reflector. This new treatment of aluminum in electric shade, to the best of our knowledge and belief, has been discovered by us, and from all that we can learn, has never been used heretofore on any electrical shades. The shades can be furnished green outside, polished inside or polished both sides, or with the new process of treating aluminum, called silvereen finish.



No. 21857.

<i>Sheer</i>	21854	Complete with Collar, Green outside, polished inside	8.00
<i>Sheet</i>	21855	Complete with Collar, polished both sides,	10.00
<i>Sheik</i>	21856	Complete with Collar, Silver finish.....	10.00
<i>Shekel</i>	21857	Patent Shade Holder, with collar for Shade per doz. ....	.60



No. 21858

Parabolic Reflector.

Aluminum.

Green outside, polished inside. Fits lamp without shade holder.

<i>Sheltor</i>	21858	For 16 c. p. lamp.....	7.50
<i>Shelte</i>	21859	For 32 c. p. lamp.....	11.50



Deep Cone Form.
No. 21860.

Sheol

Cutter Combination Shades.

Deep Cone Form.

Save the cost of a shadeholder. Grip the socket squarely and firmly. Throw the light where it is wanted. 25,000 now in use.

Green on top, white or bright inside.

Fit the standard socket shells.

For use in offices, factories and shops.

21860 Per doz..... \$3.00



No. 21861.

Shepherd

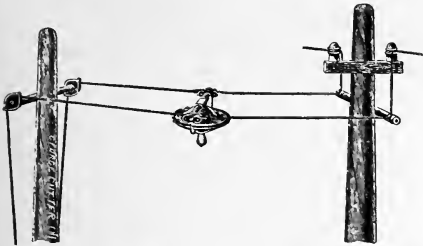
Flat Form.

Has an improved clamp which grips any beaded socket, so that no shadeholder is required. Is quickly put on or taken off, and has no fingers to bend out of shape or break off.

Always hangs level and firm, and is the most durable reflector made for halls, shops or stores.

Green on top, bright tin or white enameled inside.

21861 Per doz..... 1.80



No. 23075.

Cutter "Always Level" Suspension Streethood.

It is the only suspension streethood that will stay level in windy weather. The two wires leading to the hood make up one side of the suspension, while cords passing over covered pulleys form the other side so that the hood is supported from four points.

Both the wires and the cords are insulated from the cross arm by means of the special spreader tips. The pulleys are mounted on a wrought iron bracket, while a wrought iron brace arm is used at the other pole. These parts are assembled before shipment so that they can be quickly screwed in place. Then an adjusting clamp is placed near the end of each cord so that these cords can be independently drawn up taut and then locked together.



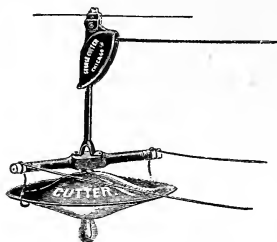
Streethood Nozzle.



"Always Level" Spreader Tip.

Silt

23075 Complete with multiple socket. . 3.00

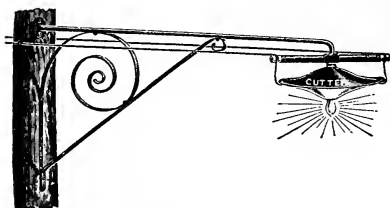


Nos. 20773 and 20773.

Cutter Petite Pulley and Hood.

Is a smaller form of the lamp supporting pulley, adapted for use with streethoods. This style of suspension is still a favorite with many stations, and the cross arm for this purpose has a special knob bolted securely to it.

Code Word.	List No	List Price. Each.
<i>Sadiron</i>	20772 Hood with cross arm, socket and pulley.....	\$1.75
<i>Sadly</i>	20773 Petite Pulley .....	.50

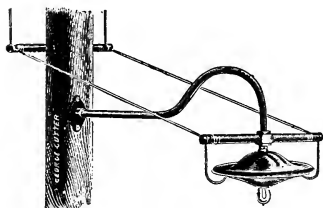


No. 20774.

Cutter Boulevard Streethood.

Is an ornamental form designed for use on fine residence streets. The cut shows this as made with a five-foot bracket arm; other lengths and special designs will be furnished on short notice.

<i>Sadures</i>	20774 Complete with socket	3.00
----------------	----------------------------------	------

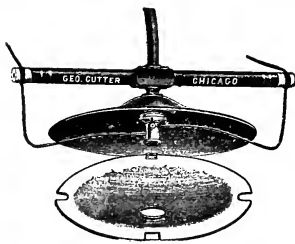


No. 20775.

Cutter Standard Streethood.

Is the outcome of an 'eight years' experience in designing and building incandescent street fixtures. The hood proper is seamless and bell-shaped for neatness and strength. The reflector has a white enamel paint baked on it so as to resist the weather, and is so curved as to scatter the light evenly over a wide area. The receptacle socket furnished with the hood for use on multiple circuits can be more quickly wired than any other socket.

The iron supporting bracket or "gooseneck" is extra heavy, and fits a special pole-plate which is bolted to the pole

No. 20775.
Hood Opened.

<i>Sadr</i>	20775 Complete with brace arm and socket	2.25
-------------	--	------



No. 2799.

Code Word.
List

List No.

2799 Each \$3.00

List Price

Price includes Bracket.

The Tidnam Hood.

JAPANNED GREEN ON TOP, WHITE ENAMEL REFLECTOR.



No. 2782.

<i>Listed</i>	2782	16 Inch, each.....	1.60
<i>Listings</i>	2783	18 " "	2.25
<i>Listings</i>	2784	20 " "	2.50

Adapted for Weather-proof Globe. In ordering, state size of socket— $\frac{1}{8}$ inch or $\frac{3}{8}$ inch.

The Marten Hood.

ALL PARTS INTERCHANGEABLE.



No. 2785.

<i>Listed</i>	2785	16 Inch, each.....	2.00
		Socket protected by the Reflector, the Lamp only being exposed.	

The Chapin Hood.



No. 2786.

<i>Listed</i>	2786	16 Inch, each.....	1.25
		Socket protected by the Reflector, the Lamp only being exposed.	

The Columbian Hood



No. 2787.

<i>Listings</i>	2787	18 Inch, each.....	1.50
		Socket protected by the Reflector, the Lamp only being exposed.	



No. 2060.

No. 2069.

Weather-proof Globes.

Weather-proof, for 16 Candle-power Lamp.

Code Word.	List No.	List Price.
<i>Lillian</i>	2060 Crystal, with Cap, each.....	\$1.00
<i>Lily</i>	2061 " Globe only, " .....	.50
<i>Limber</i>	2062 Blue, with Cap, "	1.25
<i>Limberness</i>	2063 " Globe only, " .....	.75
<i>Limelight</i>	2064 Green, with Cap, "	1.25
<i>Limestone</i>	2065 " Globe only, " .....	.75
<i>Limit</i>	2066 Ruby, with Cap, "	1.88
<i>Limitable</i>	2067 " Globe only "	1.38
<i>Limitation</i>	2068 Cap only for above " .....	.50

Weather-proof, for 32 Candle-power Lamp.

SAME PATTERN AS No. 2060.

<i>Limited</i>	2069 Crystal, with Cap, each.....	1.88
<i>Limitless</i>	2070 " Globe only, " .....	.88
<i>Limpid</i>	2071 Blue, with Cap, each	2.50
<i>Limpidity</i>	2072 " Globe only, "	1.50
<i>Limpidness</i>	2073 Green, with Cap, "	2.50
<i>Limsy</i>	2074 " Globe only "	1.50
<i>Limch</i>	2075 Ruby, with Cap, "	3.13
<i>Limchpin</i>	2076 " Globe only "	2.13
<i>Lineage</i>	2077 Caps only for above, each.....	1.00



No. 2078.



No. 2087.

Weather-proof, for 16 Candle-power Lamp.

<i>Lineal</i>	2078 Crystal, with Cap, each.....	1.00
<i>Lineality</i>	2079 " Globe only, " .....	.50
<i>Lineament</i>	2080 Blue, with Cap, each.....	1.25
<i>Linear</i>	2081 " Globe only, " .....	.75
<i>Lineation</i>	2082 Green, with Cap "	1.25
<i>Linen</i>	2083 " Globe only, " .....	.75
<i>Loftiness</i>	2084 Ruby, with Cap, "	1.88
<i>Lofty</i>	2085 " Globe only, "	1.38
<i>Logic</i>	2086 Cap only for above, each.....	.50

Vapor-proof, for 16 Candle-power Lamp.

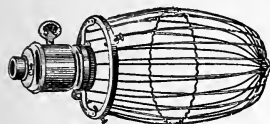
<i>Locating</i>	2087 Crystal, with Cap, each.....	1.88
<i>Locket</i>	2088 " Globe only, " .....	.88
<i>Locketth</i>	2089 Blue, with Cap, each	2.88
<i>Lodge</i>	2090 " Globe only, "	1.88
<i>Lodged</i>	2091 Green, with Cap, "	2.88
<i>Lodging</i>	2092 " Globe only, "	1.88
<i>Lodgment</i>	2093 Ruby, with Cap, "	3.50
<i>Loft</i>	2094 " Globe only, "	2.50
<i>Loftily</i>	2095 Cap only for above, each.....	1.00

Wire Guards.



No. 2803

Code Word.	List No.	List Price
<i>Deaconess</i>	2803 Polished Brass, per dozen.....	\$1.75
<i>Deaden</i>	2804 Tinned, per dozen.....	1.50



No. 2806.

<i>Deadly</i>	2806 Tinned, per dozen.....	1.75
---------------	-----------------------------	------

For 3½ inch Holder only.



No. 2807.

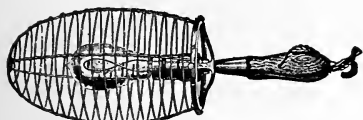
<i>Acclamatory</i>	2807 Polished Brass, per dozen.....	2.00
<i>Acclivity</i>	2808 Tinned, per dozen.....	1.50



No. 2809

<i>Accompany</i>	2809 Galvanized Iron, each.....	.20
------------------	---------------------------------	-----

For 3½ inch Holder only.



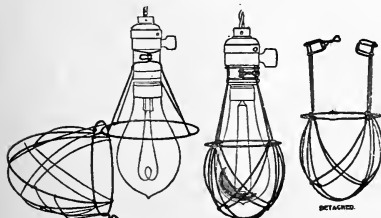
No. 2058.

<i>Linger</i>	2058 Guard No. 2809, Complete with Handle, Hook and Holder, each	.45
---------------	---	-----

<i>Restate</i>	8725 Handle, with Hook, each.....	.20
----------------	-----------------------------------	-----

The "Perfection" Guard.

The "Perfection" Guard is made of bright tinned wire, silver finish. It is easily clamped to socket. When attached it is firm and rigid and will protect the lamp from breakage when subjected to the roughest usage. It is made in two styles, one plain and one which opens, as shown in illustration, for removing the lamp without removing the guard.



Duplex.

<i>Accrescence</i>	25490 Perfection Plain Lamp Guard per doz.	1.25
<i>Acinous</i>	25572 " Duplex " "	1.50

Station, Testing and Measuring Instruments



No. 2281.

Voltmeter.

A voltmeter specially designed for use on dynamo switchboards. It has no springs nor permanent magnets, is practically dead beat and reliable within one per cent.

The instrument is protected by a substantial bronze case fastened to its base by sealed screws so that it cannot be removed without showing the fact.

Code Word.	List No.		List Price.
<i>Mazy</i>	2281	120 Volts, each.....	\$50.00
<i>Mead</i>	2282	150 " ".....	55.00
<i>Meadow</i>	2283	200 " ".....	60.00
<i>Meager</i>	2284	220 " ".....	65.00
<i>Meagerness</i>	2285	250 " ".....	65.00
<i>Meal</i>	2286	400 " ".....	70.00
<i>Mealiness</i>	2287	500 " ".....	75.00
<i>Mean</i>	2288	600 " ".....	75.00

Ammeter.

Our improved Magnetic Vane Ammeter has no springs or permanent magnets, is a purely gravity instrument, nearly dead beat, and yet sensitive to small changes of current. Made in sizes varying in range up to a maximum of 600 amperes.

A heavy bronze case with sealed fastenings is used, so that the instrument cannot be tampered with without showing it.

This instrument is adapted to be placed directly in a circuit, no shunts or other devices being used in connection with it.



No. 3375.

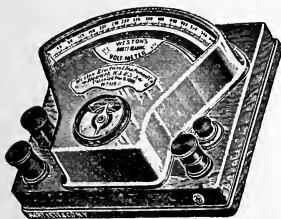
<i>Meander</i>	2289	5 Amperes, each.....	16.50
<i>Meaning</i>	2290	10 " ".....	18.00
<i>Meaningly</i>	2291	20 " ".....	18.00
<i>Meanly</i>	2292	30 " ".....	18.00
<i>Meanness</i>	2293	50 " ".....	20.00
<i>Measles</i>	2294	90 " ".....	20.00
<i>Lampoon</i>	3373	120 " ".....	20.00
<i>Lampooned</i>	3374	150 " ".....	21.00
<i>Lance</i>	3375	200 " ".....	21.00
<i>Lanced</i>	3376	300 " ".....	21.00
<i>Lancet</i>	3377	400 " ".....	22.00
<i>Land</i>	3378	500 " ".....	24.00
<i>Landau</i>	3379	600 " ".....	30.00
<i>Landed</i>	3380	750 " ".....	30.00
<i>Landholder</i>	3381	1000 " ".....	40.00
<i>Landlady</i>	3382	1500 " ".....	45.00
<i>Landlock</i>	3383	2000 " ".....	55.00

Weston Standard Portable Direct Reading Voltmeters.

The following is a list of the Standard Voltmeters kept in stock. Calibrating coils and contact keys are attached to instruments only when so stated. The scales for these instruments are of uniform length, and are divided into 120 or 150 parts, the value of each division being the proportional part of the maximum scale value.

Instruments provided with contact key can be kept permanently in circuit by depressing the key and giving it a quarter turn. All instruments are provided with rubber-covered binding posts.

Code Word.	List No.	List Price.
<i>Betrayal</i>	2609 No. 1. Scale 0 to 150 volts by single volt divisions, readable to tenths, each.....	\$55.00
<i>Betrayed</i>	2610 No. 2. Scale 0 to 150 volts by single volt divisions, readable to tenths; contact key and calibrating coil. each.....	60.00
<i>Betraying</i>	2611 No. 3. Scale 0 to 150 volts and 0 to 5 volts; scale of double values with a ratio of 30. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values $\frac{1}{30}$ of a volt, readable to $\frac{1}{300}$; contact key, each.....	75.00
<i>Betsy</i>	1179 No. 3 $\frac{1}{2}$. Scale 0 to 150 volts and 0 to 3 volts; scale of double values with a ratio of 50. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values $\frac{1}{50}$ of a volt, readable to $\frac{1}{500}$; contact key; each.....	75.00
<i>Betroth</i>	2612 No. 4. Scale 0 to 150 volts and 0 to 15 volts; scale of double values with ratio of 10. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values is $\frac{1}{10}$ of a volt, readable to $\frac{1}{100}$; contact key, each.....	75.00
<i>Betrothal</i>	2613 No. 5. Scale 0 to 300 volts by 2 volt divisions, readable to $\frac{1}{2}$ volt; circuit key and calibrating coil, each.....	65.00
<i>Betrothing</i>	1178 No. 6. Scale 0 to 450 volts by 3 volt divisions, readable to $\frac{1}{3}$ volt; contact key and calibrating coil, each.....	70.00
<i>Admiralty</i>	3045 No. 7. Scale 0 to 600 volts by 5 volt divisions, readable to $\frac{1}{5}$ volt, each.....	65.00
<i>Admiration</i>	3046 No. 8. Scale 0 to 600 volts by 5 volt divisions, readable to $\frac{1}{5}$ volt; contact key and calibrating coil, each.....	70.00



No 3046.

Weston Standard Portable Direct Reading Voltmeters—(Continued).

Code Word.	List No.	List Price.
<i>Bespeaking</i>	1180	No. 9. Scale 0 to 600 volts and 0 to 150 volts; scale of double values with ratio of 4, reading by 4 volt divisions, readable to $\frac{1}{4}$ volt on upper scale values, and by single volt divisions readable to $\frac{1}{16}$ on lower scale values; contact key, each.....\$80.00
<i>Bespoke</i>	1193	No. 9 $\frac{1}{2}$. Scale 0 to 750 volts and 0 to 150 volts; scale of double values with ratio of 5, reading by 5 volt divisions, readable to $\frac{1}{5}$ volt on upper scale values, and by single volt divisions readable to $\frac{1}{10}$ volt on lower scale values; contact key, each.....80.00
<i>Bestain</i>	1194	No. 10. Scale 0 to 600 volts and 0 to 300 volts; scale of double values with ratio of 2, reading by 4 volt divisions, readable to $\frac{1}{2}$ volt on upper scale values, and by 2 volt divisions, readable to $\frac{1}{4}$ volt on lower scale values; contact key, each.....80.00
<i>Bestir</i>	1195	No. 11. Scale 0 to 750 volts by 5 volt divisions, readable to $\frac{1}{5}$ volt, each.....70.00
<i>Bestow</i>	1196	No. 12. Scale 0 to 1,500 volts by 10 volt divisions, readable to single volts, each.....80.00

Voltmeters of other ranges, with one or more scale values, will be made on special order.

High Range Voltmeters

In which part of the resistance is contained in a separate box specially designed to obtain high insulation. No calibrating coil or contact key.

<i>Bestowing</i>	1197	No. 13. Range 0 to 2,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 15, each.....100.00
<i>Bestride</i>	1198	No. 14. Range 0 to 3,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 20, each.....105.00
<i>Bestriding</i>	1199	No. 15. Range 0 to 3,750 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 25, each.....115.00
<i>Betake</i>	1183	No. 18. Range 0 to 4,500 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 30, each.....125.00

High Range Voltmeters—(Continued).

Code Word.	List No.	List Price.
<i>Betaken</i>	1184	No. 17. Range 0 to 5,250 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 35, each. \$135.00
<i>Betroy</i>	3047	No. 18. Range 0 to 6,000 volts and 0 to 150 volts. No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by 40, each. 145.00

The above listed High Range Voltmeters graduated to read in lamps, in addition to the graduation in volts, showing by simple inspection the number of arc lamps burning on the circuit, additional, each, \$5.00.

Reversing Keys.

For the convenience of those who have occasion to make many and rapid tests of the distribution of potential on electric circuits of unknown polarity, a Reversing Key may be applied, when specially ordered, to any of our voltmeters. This Key enables the user to open the circuit by turning the milled head through an angle of 45 degrees, or to reverse the direction of the current in the instrument by an additional movement of 45 degrees. An arrow cut on the head of the Key points towards the side of the instrument at which the current enters, when the needle is deflected over the scale. Price, extra, \$2 50.

Milli Voltmeters.**A. Low Resistance Instruments, Wound with Copper Wire.**

<i>Clarion</i>	2594	No. 1. Scale 0 to $\frac{1}{100}$ volt by 100 divisions, each readable to tenths, each 50.00
<i>Clarinet</i>	2595	No. 2. Scale 0 to $\frac{1}{100}$ volt, right and left, by 100 divisions, each division representing $\frac{1}{10000}$ of a volt, each. 50.00
<i>Clarissa</i>	2596	No. 3. Scale 0 to $\frac{1}{100}$ volt, right and left, by 100 divisions; supplied with contact key, reducing sensibility 10 times, each. 55.00

B. High Resistance Instruments, Wound with Special Alloy, Compensated for Temperature.

<i>Commute</i>	3677	No. 4. Scale 0 to .2 volts in 100 divisions, readable to .0002 of a volt, each. 50.00
<i>Commuted</i>	3678	No. 5. Scale 0 to .3 volts in 150 divisions, readable to .0002 of a volt, each. 50.00



No. 3047½

Leather Cases for Weston Portable Volt and Ammeters.

For those electricians who have occasion to travel and carry an instrument with them, a very neat and convenient Sole Leather Case, stiffened, lined with velvet, and supplied with shoulder strap, lock and key, has been devised, and is recommended as giving increased protection against accidental injury to the instrument. Price, when ordered instead of the usual wooden case, extra, \$3.50.

Code Word.	List No.	List Price.
Admittance	3047½ Each	\$4.00



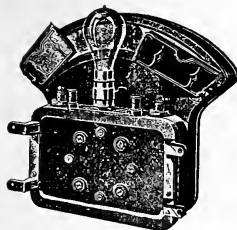
Weston Illuminated Dial Station Ammeters.

We furnish the cases in two different styles, as follows:

No. 2 Finish.—Border of case and face of letters nickel plated and polished; background of letters, and back case dead black japan. This is a neat and durable finish, and one we highly recommend for general use.

No. 3 Finish.—Border of front and face of letters nickel plated and polished; background of letters dead nickel matt; all parts of back case in sight nickel plated and polished.

Each instrument has attached to it a lamp socket and binding posts for connecting the scale lamp to the circuit. It is also provided with a pair of thin wire leads, with suitable terminals for connecting the instrument to the main or shunt. With each instrument there is sent a pair of detachable mirror supports and detachable mirrors.



Combined Instruments and Shunts.

Adducible	3067	Finish No. 2, 0 to	200 amp. in	2 amp. divisions	79.50
Adept	3068	" " 3, 0 "	200 "	" "	84.00
Commenters	2120	" " 2, 0 "	250 "	2 "	79.50
Commented	2121	" " 3, 0 "	250 "	2 "	84.00
Comb	2104	" " 2, 0 "	300 "	2 "	79.75
Combat	2105	" " 3, 0 "	300 "	2 "	84.25
Adhesive	3070	" " 2, 0 "	400 "	4 "	80.00
Adipose	3071	" " 3, 0 "	400 "	4 "	84.50
Combustible	2110	" " 2, 0 "	500 "	5 "	81.00
Comedian	2111	" " 3, 0 "	500 "	5 "	85.50
Adjective	3073	" " 2, 0 "	600 "	5 "	82.00
Adjoin	3074	" " 3, 0 "	600 "	5 "	86.50
Comfort	2116	" " 2, 0 "	750 "	5 "	83.00
Comfortable	2117	" " 3, 0 "	750 "	5 "	87.50
Adjustment	3076	" " 2, 0 "	1,000 "	10 "	84.00
Adjudicate	3077	" " 3, 0 "	1,000 "	10 "	88.50
Command	2122	" " 2, 0 "	1,200 "	10 "	85.00
Commander	2123	" " 3, 0 "	1,200 "	10 "	89.50
Commence	2125	" " 2, 0 "	1,500 "	10 "	90.75
Commencing	2126	" " 3, 0 "	1,500 "	10 "	95.25

Weston Illuminated Dial Station Ammeters—

(Continued)

Code Word.	List No.	Finish No. 2, 0 to 2,000 amp. in 20 amp. divisions	List Price.
<i>Adjunction</i>	3079	" " 3, 0 " 2,000 " 20 "	\$95.25
<i>Adjunctive</i>	3080	" " 3, 0 " 2,000 " 20 "	99.75
<i>Commission</i>	2134	" " 2, 0 " 2,500 " 20 "	96.75
<i>Commit</i>	2135	" " 3, 0 " 2,500 " 20 "	101.25
<i>Committal</i>	2137	" " 2, 0 " 3,000 " 20 "	99.00
<i>Committed</i>	2138	" " 3, 0 " 3,000 " 20 "	103.50
<i>Commandant</i>	2140	" " 2, 0 " 3,500 " 20 "	102.00
<i>Committable</i>	2141	" " 3, 0 " 3,500 " 20 "	106.50
<i>Commie</i>	2143	" " 2, 0 " 4,000 " 30 "	106.50
<i>Commixion</i>	2144	" " 3, 0 " 4,000 " 30 "	111.00
<i>Commodious</i>	2146	" " 2, 0 " 4,500 " 40 "	114.00
<i>Commodity</i>	2147	" " 3, 0 " 4,500 " 40 "	118.50
<i>Commoner</i>	2149	" " 2, 0 " 5,000 " 50 "	121.50
<i>Commonly</i>	2150	" " 3, 0 " 5,000 " 50 "	126.00
<i>Categorize</i>	1128	" " 2, 0 " 6,000 " 50 "	129.00
<i>Category</i>	1129	" " 3, 0 " 6,000 " 50 "	133.50
<i>Catenary</i>	1130	" " 2, 0 " 7,000 " 50 "	136.50
<i>Catenarian</i>	1137	" " 3, 0 " 7,000 " 50 "	141.00
<i>Clayed</i>	1138	" " 2, 0 " 8,000 " 100 "	151.50
<i>Careful</i>	1139	" " 3, 0 " 8,000 " 100 "	156.00
<i>Coled</i>	1138½	" " 2, 0 " 10,000 " 100 "	166.50
<i>Colery</i>	1239½	" " 3, 0 " 10,000 " 100 "	171.00

Weston Illuminated Dial Station Ammeters.

Combined Instruments and Shunts—Flush Pattern.



No. 2197.

<i>Comical</i>	2120½	Finish No. 2, 0 to 200 amp. in 2 amp. divisions	79.50
<i>Comically</i>	2121½	" " 3, 0 " 200 " 2 "	84.00
<i>Come</i>	3068½	" " 2, 0 " 250 " 2 "	79.50
<i>Coming</i>	3067½	" " 3, 0 " 250 " 2 "	84.00
<i>Commanding</i>	2124	" " 2, 0 " 300 " 2 "	79.75
<i>Comment</i>	2127	" " 3, 0 " 300 " 2 "	84.25
<i>Commerce</i>	2130	" " 2, 0 " 400 " 5 "	80.00
<i>Commercial</i>	2131	" " 3, 0 " 400 " 5 "	84.50
<i>Commingle</i>	2132	" " 2, 0 " 500 " 5 "	81.00
<i>Commissary</i>	2133	" " 3, 0 " 500 " 5 "	85.50
<i>Commitment</i>	2136	" " 2, 0 " 600 " 5 "	82.00
<i>Committer</i>	2139	" " 3, 0 " 600 " 5 "	86.50
<i>Committing</i>	2142	" " 2, 0 " 750 " 5 "	83.00
<i>Commode</i>	2145	" " 3, 0 " 750 " 5 "	87.50
<i>Commodore</i>	2148	" " 2, 0 " 1,000 " 10 "	84.00
<i>Conspire</i>	2194	" " 3, 0 " 1,000 " 10 "	88.50
<i>Conspiringly</i>	2197	" " 2, 0 " 1,200 " 10 "	85.00
<i>Constancy</i>	2200	" " 3, 0 " 1,200 " 10 "	89.50
<i>Constantly</i>	2203	" " 2, 0 " 1,500 " 10 "	90.75
<i>Constituent</i>	2206	" " 3, 0 " 1,500 " 10 "	95.25

Weston Illuminated Dial Station Ammeters—

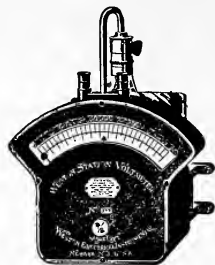
(Continued).

Code Word	List No.		List Price.
<i>Colloquial</i>	2160	Finish No. 2, 0 to 2,000 amp in 20 amp. divisions	\$95.25
<i>Collusive</i>	2163	" " 3, 0 " 2,000 " 20 "	99.75
<i>Colonist</i>	2166	" " 2, 0 " 2,500 " 20 "	96.75
<i>Colony</i>	2169	" " 3, 0 " 2,500 " 20 "	101.25
<i>Colorless</i>	2172	" " 2, 0 " 3,000 " 20 "	99.00
<i>Claying</i>	2173	" " 3, 0 " 3,000 " 20 "	103.50
<i>Careless</i>	2176	" " 2, 0 " 3,500 " 20 "	102.00
<i>Carelessly</i>	2179	" " 3, 0 " 3,500 " 20 "	106.50
<i>Caressed</i>	2182	" " 2, 0 " 4,000 " 30 "	106.50
<i>Dialogue</i>	2185	" " 3, 0 " 4,000 " 30 "	111.00
<i>Diameter</i>	2188	" " 2, 0 " 4,500 " 40 "	114.00
<i>Diamond</i>	2189	" " 3, 0 " 4,500 " 40 "	118.50
<i>Luckily</i>	2190	" " 2, 0 " 5,000 " 50 "	121.50
<i>Luckiness</i>	2191	" " 3, 0 " 5,000 " 50 "	126.00
<i>Luckless</i>	2192	" " 2, 0 " 6,000 " 50 "	129.00
<i>Lucklessly</i>	2193	" " 3, 0 " 6,000 " 50 "	133.50
<i>Lucky</i>	470	" " 2, 0 " 7,000 " 50 "	136.50
<i>Lucrative</i>	471	" " 3, 0 " 7,000 " 50 "	141.00
<i>Littigant</i>	472	" " 2, 0 " 8,000 " 100 "	151.40
<i>Litigate</i>	473	" " 3, 0 " 8,000 " 100 "	156.00
<i>Litu</i>	472½	" " 2, 0 " 10,000 " 100 "	166.50
<i>Litudone</i>	473½	" " 3, 0 " 10,000 " 100 "	171.00

Extra Shunts for Illuminated Dial
Station Ammeters.

<i>Andiron</i>	9400½	0 to 200 amp. in 2 amp. divisions.....	3.00
<i>Andeson</i>	9400½	0 " 250 " 2 " "	3.00
<i>Anemone</i>	9402	0 " 400 " 5 " "	3.50
<i>Angel</i>	9403	0 " 500 " 5 " "	4.50
<i>Angling</i>	9404	0 " 600 " 5 " "	5.50
<i>Angry</i>	9405	0 " 750 " 5 " "	6.50
<i>Angular</i>	9406	0 " 1,000 " 10 " "	7.50
<i>Angus</i>	9407	0 " 1,200 " 10 " "	8.50
<i>Ann</i>	9408	0 " 1,500 " 10 " "	14.25
<i>Announce</i>	9410	0 " 2,000 " 20 " "	18.75
<i>Indriation</i>	9411	0 " 2,500 " 20 " "	20.25
<i>Lucid</i>	9412	0 " 3,000 " 30 " "	22.50
<i>Lucidity</i>	9413	0 " 3,500 " 20 " "	25.50
<i>Lucifer</i>	9414	0 " 4,000 " 30 " "	30.00
<i>Lumping</i>	9415	0 " 4,500 " 40 " "	37.50
<i>Lumpish</i>	9416	0 " 5,000 " 50 " "	45.00
<i>Lumpishly</i>	9417	0 " 6,000 " 50 " "	52.50
<i>Literature</i>	9418	0 " 7,000 " 50 " "	60.00
<i>Lithograph</i>	9419	0 " 8,000 " 100 " "	75.00
<i>Litugun</i>	9419½	0 " 10,000 " 100 " "	90.00

Weston Illuminated Dial Station Voltmeters.



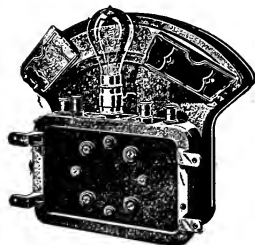
No. 2164.

Style "A," or Smaller Sized.

Code Word.	List No.	Scale 0 to	85 volts in single volt divisions, finish No.	List Price.
<i>Collided</i>	2152	Scale 0 to	85 volts in single volt divisions, finish No.	\$55.00
<i>Collier</i>	2153	" 0 "	85 " " " " " "	\$ 57.50
<i>Collision</i>	2155	" 0 "	100 " " " " " "	\$ 56.00
<i>Collocate</i>	2156	" 0 "	100 " " " " " "	\$ 58.50
<i>Colloquy</i>	2158	" 0 "	125 " " " " " "	\$ 58.00
<i>Collusion</i>	2159	" 0 "	125 " " " " " "	\$ 60.50
<i>Colon</i>	2161	" 0 "	135 " " " " " "	\$ 60.00
<i>Colonel</i>	2162	" 0 "	135 " " " " " "	\$ 62.50
<i>Colonizing</i>	2164	" 0 "	150 " " " " " "	\$ 62.00
<i>Colonnade</i>	2165	" 0 "	150 " " " " " "	\$ 64.50
<i>Color</i>	2167	" 0 "	250 " two " " "	\$ 64.00
<i>Colorable</i>	2168	" 0 "	250 " " " " " "	\$ 66.50
<i>Colossal</i>	2170	" 0 "	300 " " " " " "	\$ 66.00
<i>Colt</i>	2171	" 0 "	300 " " " " " "	\$ 68.50



No. 3043—Front.



No. 3043—Rear.

Style "B," or Larger Sized.

<i>Emersion</i>	2174	Scale 0 to 125 volts in single volt divisions, finish No.	2	75.00
<i>Emetic</i>	2175	" 0 "	125 " " " " " "	\$ 79.50
<i>Emigrant</i>	2177	" 0 "	150 " " " " " "	\$ 76.00
<i>Emigrate</i>	2178	" 0 "	150 " " " " " "	\$ 80.50
<i>Emigration</i>	2180	" 0 "	175 " " " " " "	\$ 77.00
<i>Emile</i>	2181	" 0 "	175 " " " " " "	\$ 81.50
<i>Embossed</i>	2183	" 0 "	250 " two " " "	\$ 78.00
<i>Embossment</i>	2184	" 0 "	250 " " " " " "	\$ 82.50
<i>Embottle</i>	2186	" 0 "	300 " " " " " "	\$ 79.00
<i>Embottled</i>	2187	" 0 "	300 " " " " " "	\$ 83.50
<i>Adjured</i>	3040	" 0 "	600 " five " " "	\$ 80.00
<i>Adjurer</i>	3041	" 0 "	600 " " " " " "	\$ 84.50
<i>Adjust</i>	3043	" 0 "	750 " " " " " "	\$ 81.00
<i>Adjusted</i>	3044	" 0 "	750 " " " " " "	\$ 85.50

NOTE—For higher ranges, extra multipliers are furnished.

Prices quoted on application. In placing order, please give style of lamp socket.

Weston Illuminated Dial Station Voltmeters.



No. 2118.

Code Word.	List No.	Flush Pattern.	List Price.
<i>Columbine</i>	2100	Scale 0 to 125 volts in single volt divisions, finish No.	\$75.00
<i>Column</i>	2101	" 0 " 125 " " " " " "	3 79.50
<i>Cona</i>	2102	" 0 " 150 " " " " " "	2 76.00
<i>Conatose</i>	2103	" 0 " 150 " " " " " "	3 80.50
<i>Combatant</i>	2106	" 0 " 175 " " " " " "	2 77.00
<i>Combinaible</i>	2107	" 0 " 175 " " " " " "	3 81.50
<i>Combination</i>	2108	" 0 " 250 " two " " "	2 78.00
<i>Combine</i>	2109	" 0 " 250 " " " " " "	3 82.50
<i>Comely</i>	2112	" 0 " 300 " " " " " "	2 79.00
<i>Comet</i>	2113	" 0 " 300 " " " " " "	3 83.50
<i>Cometary</i>	2114	" 0 " 600 " five " " "	2 80.00
<i>Comfit</i>	2115	" 0 " 600 " " " " " "	3 84.50
<i>Comforted</i>	2118	" 0 " 750 " " " " " "	2 81.00
<i>Comic</i>	2119	" 0 " 750 " " " " " "	3 85.50

NOTE—For higher ranges, extra multipliers are furnished.
Prices quoted on application. In placing order, please give style of lamp socket.

Weston Potential Indicators.

In the Potential Indicator a modification is made in the interior part of the instrument for the purpose of securing a much larger movement of the index for a single volt. In an instrument having a range of 130 volts we can secure a movement of the index equal to about one-third of an inch for a change of one volt in pressure; but this instrument would only begin to read at 90 volts. The instruments are so constructed that the index will be very near the centre of the scale for the normal voltage. The scale is figured in two ways: (1) in volts only, or (2) two sets of figures are given, one set giving the actual voltage, and the other set indicating the number of volts above or below the normal voltage, which is marked zero. The prices for these instruments are the same as for corresponding ranges of Style "B" Illuminated Dial Station Voltmeters.



ILLUMINATED DIAL, FLUSH PATTERN.



ILLUMINATED DIAL, STANDARD.

Weston Railway, Isolated Plant and Feeder Voltmeters.

FOR DIRECT CURRENT CIRCUITS ONLY.

Round Pattern.

Code Word.	List No.	List Price.
<i>Herbert</i>	1185 No. 1, 3 Volt Scale. Scale of 150 divisions, each division equal to .02 of a volt and readable to tenths of a division, or .002 volts in any part of the scale, each.....	\$25.00
<i>Horatio</i>	1187 No. 2, 6 Volt Scale. Scale of 120 divisions, each division equal to .05 of a volt and readable to tenths of a division, or .005 volts in any part of the scale, each.....	25.00
<i>Hardness</i>	1188 No. 3, 15 Volt Scale. Scale of 150 divisions, each division equal to .1 of a volt and readable to tenths of a division, or .01 volt in any part of the scale, each.....	25.00
<i>Hardship</i>	1189 No. 4, 25 Volt Scale. Scale of 125 divisions, each division equal to .2 of a volt and readable to tenths of a division, or .02 volt in any part of the scale, each.....	26.00
<i>Harelip</i>	1190 No. 5, 50 Volt Scale. Scale of 100 divisions, each division equal to .5 of a volt and readable to tenths of a division, or .05 volt in any part of the scale, each.....	26.50
<i>Harelypped</i>	1940 No. 6, 75 Volt Scale. Scale of 150 divisions, each division equal to .5 of a volt and readable to tenths of a division, or .05 volt in any part of the scale, each.....	27.25
<i>Harem</i>	1941 No. 7, 125 Volt Scale. Scale of 125 divisions, each division equal to 1 volt and readable to tenths of a division, or .1 volt in any part of the scale, each.....	28.25
<i>Harecot</i>	1942 No. 8, 150 Volt Scale. Scale of 150 divisions, each division equal to 1 volt and readable to tenths of a division, or .1 volt in any part of the scale, each.....	29.50
<i>Hairent</i>	1942½ 250 Volt Scale. Scale of 125 Divisions, each division equal to 2 volts and readable to tenths of a division or .1 volt in any part of the scale, each.....	31.50
<i>Harlequin</i>	1943 No. 9, 300 Volt Scale. Scale of 150 divisions, each division equal to 2 volts and readable to tenths of a division, or .2 volt in any part of the scale, each.....	32.50
<i>Adjuster</i>	3050 No. 10, 600 Volt Scale. Scale of 120 divisions, each division equal to 5 volts and readable to tenths of a division, or .5 volt in any part of the scale, each.....	35.00
<i>Adjustive</i>	3051 No. 11, 750 Volt Scale. Scale of 150 divisions, each division equal to 5 volts and readable to tenths of a division, or .5 volt in any part of the scale, each.....	37.00



No. 1942.

Weston Railway, Isolated Plant and Feeder Ammeters.

FOR DIRECT CURRENT CIRCUITS ONLY.

Code Word.	List No.	Round Pattern.	List Price.
<i>Hoea</i>	1944	No. 1, 1 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .01 of an ampere, readable to tenths of a division, or .001 ampere in any part of the scale, each.....	\$25.00
<i>Hugh</i>	1945	No. 2, 5 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .05 of an ampere, readable to tenths of a division, or .005 ampere in any part of the scale, each.....	25.00
<i>Huldan</i>	1946	No. 3, 10 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .1 of an ampere, readable to tenths of a division, or .01 ampere in any part of the scale, each.....	25.00
<i>Humphrey</i>	1947	No. 4, 15 Ampere Scale. Instrument combined with shunt. Scale of 150 divisions, each division equal to .1 of an ampere, readable to tenths of a division, or .01 ampere in any part of the scale, each.....	25.00
<i>Bigot</i>	1999	No. 5, 25 Ampere Scale. Instrument combined with shunt. Scale of 125 divisions, each division equal to .5 of an ampere, readable to tenths of a division, or .05 ampere in any part of the scale, each.....	25.00
<i>Bigoted</i>	2000	No. 6, 50 Ampere Scale. Instrument combined with shunt. Scale of 100 divisions, each division equal to .5 of an ampere, readable to tenths of a division, or .05 ampere in any part of the scale, each.....	25.50
<i>Bigotry</i>	1080	No. 7, 75 Ampere Scale. Instrument combined with shunt. Scale of 150 divisions, each division equal to .5 of an ampere, readable to tenths of a division, or .05 ampere in any part of the scale, each.....	26.00
<i>Adjutage</i>	2678	No. 8, 100 Ampere Scale. Instrument with separate shunt. Scale of 100 divisions, each division equal to 1 ampere, readable to tenths of a division, or .1 ampere in any part of the scale, each.....	26.50
<i>Adjutant</i>	3081	No. 9, 150 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 1 ampere, readable to tenths of a division, or .1 of an ampere in any part of the scale, each.....	27.00

Weston Railway, Isolated Plant and Feeder Ammeters—(Continued).



No. 3085.

Code Word.	List No.		List Price.
<i>Adjutrix</i>	3082	No. 10, 200 Ampere Scale. Instrument with separate shunt. Scale of 100 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each.....	\$28.00
<i>Administer</i>	3083	No. 11, 250 Ampere Scale. Instrument with separate shunt. Scale of 125 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each.....	28.25
<i>Admirable</i>	3084	No. 12, 300 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 2 amperes, readable to tenths of a division, or .2 ampere in any part of the scale, each.....	28.25
<i>Admiral</i>	3085	No. 13, 400 Ampere Scale. Instrument with separate shunt. Scale of 80 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each.....	28.50
<i>Clausure</i>	1088	No. 14, 500 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each.....	29.50
<i>Clawed</i>	1089	No. 15, 600 Ampere Scale. Instrument with separate shunt. Scale of 120 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each.....	30.50
<i>Clawing</i>	1092	No. 16, 750 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the scale, each.....	31.50
<i>Clawless</i>	1093	No. 17, 1,000 Ampere Scale. Instrument with separate shunt. Scale of 100 divisions, each division equal to 10 amperes, readable to tenths of a division, or 1 ampere in any part of the scale, each.....	32.50
<i>Clay</i>	1094	No. 18, 1,200 Ampere Scale. Instrument with separate shunt. Scale of 120 divisions, each division equal to 10 amperes, readable to tenths of a division, or 1 ampere in any part of the scale, each.....	33.50

Weston Railway Isolated Plant and Feeder Ammeters—(Continued.)

Code Word.	List No.	List Price. Each.
<i>Sarcoma</i>	21361	No. 19, 1500 Ampere Scale, instrument with separate shunt, scale with 150 divisions, each division equal to 10 amperes; readable to tenths of a division or 1 ampere in any part of the scale, each \$39.25
<i>Sarcomatus</i>	21362	No. 20, 2000 Ampere Scale instrument with separate shunt, scale with 100 divisions, each division equal to 20 amperes; readable to tenths of a division or 2 amperes in any part of the scale, each 43.75
<i>Sarcophagus</i>	21363	No. 21, 2500 Ampere Scale, instrument with separate shunt, scale with 125 divisions, each division equal to 20 amperes, readable to tenths of a division or 2 amperes in any part of the scale, each 45.25

Differential Volt Meters.

In order to obviate the observing of two independent instruments and the incidental reading errors when bringing up dynamos to the normal voltage for throwing in on bus bar, an illuminated dial differential voltmeter has been devised. There is a difference in construction in these instruments for either two wire or three wire systems.

Two Wire System.

<i>Sarcophagus</i>	21364	Scale 130-0-130 volts in 2 divisions, No. 2 finish, 85.00
<i>Sarcophay</i>	21365	" 500-0-500 " 10 " No. 2 " 90.00
<i>Sarcorampus</i>	21366	" 600-0-600 " 10 " No. 2 " 95.00

Three Wire System.

<i>Sarcosis</i>	21367	Scale 130-0-130 volts in 2 divisions, No. 2 finish, 85.00
<i>Sarcotic</i>	21368	" 500-0-500 " 10 " No. 2 " 90.00
<i>Sarculation</i>	21369	" 600-0-600 " 10 " No. 2 " 95.00

No. 2 finish is dead-black japan with nickel trimming.

No. 3 finish, which is all nickel plated, brass or copper finish, is \$4.50 extra.

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits.

Each instrument is enclosed in a leather case, supplied with shoulder strap, lock and key and furnished with a pair of flexible connecting cords, for both of which no extra charge is made.



No. 2614.

Single Scale Instruments.

Code Word.	List No.	List Price.
<i>Cleansed</i>	2614	No. 1. Scale 1.5 to 7.5 volts, from 1.5 volt up in $\frac{1}{10}$ volt divisions; best range 2.5 to 6.5 volts, within that range readable to $\frac{1}{200}$ of a volt, each \$60.00
<i>Clearance</i>	2615	No. 2. Scale 1.5 to 10 volts, from 1.5 volt up in $\frac{1}{10}$ volt divisions; best range 4 to 9 volts, within that range readable to $\frac{1}{100}$ of a volt, each 60.00
<i>Cleared</i>	2616	No. 3. Scale 2 to 12 volts, from 2 volts up in $\frac{1}{10}$ volt divisions; best range 5 to 11 volts, within that range readable to $\frac{1}{100}$ of a volt, each 60.00
<i>Clearing</i>	2617	No. 4. Scale 3 to 15 volts, from 3 volts up in $\frac{1}{10}$ volt divisions; best range 5.5 to 12 volts, within that range readable to $\frac{1}{100}$ of a volt, each 60.00
<i>Clearness</i>	2618	No. 5. Scale 3 to 20 volts, from 3 volts up in $\frac{1}{10}$ volt divisions; best range 7 to 18 volts, within that range readable to $\frac{1}{100}$ of a volt, each 60.00
<i>Clearage</i>	2619	No. 6. Scale 10 to 60 volts, from 10 volts up in $\frac{1}{10}$ volt divisions; best range 25 to 55 volts, within that range readable to $\frac{1}{100}$ of a volt, each 60.00
<i>Clear</i>	2620	No. 7. Scale 15 to 75 volts, from 15 volts up in $\frac{1}{10}$ volt divisions; best range 30 to 65 volts, within that range readable to $\frac{1}{100}$ of a volt, each 60.00
<i>Cleared</i>	2621	No. 8. Scale 20 to 120 volts, from 20 volts up in 1 volt divisions; best range 50 to 110 volts, within that range readable to $\frac{1}{100}$ of a volt, each 65.00
<i>Clear</i>	2622	No. 9. Scale 30 to 150 volts, from 30 volts up in 1 volt divisions; best range 70 to 125 volts, within that range readable to $\frac{1}{100}$ of a volt, each 67.50
<i>Clef</i>	2623	No. 10. Scale 60 to 300 volts, from 60 volts up in 2 volt divisions; best range 140 to 250 volts, within that range readable to $\frac{1}{100}$ of a volt, each 70.00
<i>Clement</i>	2624	No. 11. Scale 100 to 600 volts, from 100 volts up in 5 volt divisions; best range 250 to 550 volts, within that range readable to $\frac{1}{100}$ of a volt, each 80.00

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits—(Continued)

High Range Voltmeters with Extra Multipliers.

		Single Scale Instruments.		
Code Word.	List No.			List Price.
<i>Cleaned</i>	2625	No. 12. Scale 200 to 1,200 volts; scale like No. 8 with ten times the value (10 volts) per division, each		\$ 90.00
<i>Cleanly</i>	2626	No. 13. Scale 300 to 1,500 volts; scale like No. 9 with ten times the value (10 volts) per division, each		97.50
<i>Cleanness</i>	2627	No. 14. Scale 400 to 2,400 volts; scale like No. 8 with twenty times the value (20 volts) per division, each		100.00
<i>Cleanse</i>	2628	No. 15. Scale 600 to 3,000 volts; scale like No. 10 with ten times the value (20 volts) per division, each		110.00

Double Scale Instruments.

In ordering double scale instruments it is necessary to choose the ratio of the two scales, as 1 to 2 for self-contained instruments, since it is not feasible to have the temperature regulator answer for two scales of greater ratio. If a higher range is desired to be obtained by means of a separate multiplier the ratio is not compulsory, since the temperature regulator then answers for the range of the instrument self-contained, while the dimension of the wire in the multiplier is so chosen that temperature corrections for the multiplier are not necessary if the instrument is kept in circuit for only a short time. A self-contained instrument, with single or double scale, can thus be supplied with three or more scale values. For most practical and all laboratory purposes we recommend the double scale instruments as affording a wider range of greater accuracy.

<i>Clergy</i>	2636	No. 16. Scale 3 to 15 volts and 1.5 to 7.5 volts; upper scale like No. 4, lower scale like No. 1, each		70.00
<i>Clerical</i>	2637	No. 17. Scale 3 to 20 volts and 1.5 to 10 volts; upper scale like No. 5, lower scale like No. 2, each		70.00
<i>Client</i>	2638	No. 18. Scale 20 to 120 volts and 10 to 60 volts, upper scale like No. 8, lower scale like No. 6, each		70.00
<i>Cliff</i>	2639	No. 19. Scale 30 to 150 volts and 15 to 75 volts; upper scale like No. 9, lower scale like No. 7, each		75.00
<i>Climate</i>	2640	No. 20. Scale 30 to 200 volts and 15 to 100 volts, upper scale like No. 5, lower scale like No. 2, with ten times the value per division, each...		75.00
<i>Climatic</i>	2641	No. 21. Scale 60 to 300 volts and 30 to 150 volts, upper scale like No. 10, lower scale like No. 9, each		80.00
<i>Climax</i>	2642	No. 22. Scale 100 to 600 volts and 50 to 300 volts, upper scale like No. 11, lower scale like No. 10, each		90.00

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits—(Continued).



No. 3679.

Inspectors' Pattern Voltmeters.

Under the name of "Inspectors' Pattern" we furnish the Voltmeters in a highly polished mahogany box, into which the instrument is permanently fastened. All of these instruments are provided with a reversing key. Instead of the regular binding posts, contact pins are provided, on which contact is made by means of contact cups fastened to flexible cords. The flexible cord is either furnished with plain pins or it may be provided with a contact plug to fit our lamp adapters.

For Direct Current Circuits.



No. 3684.

Code Word.	List No.	List Price.
<i>Community</i>	3679 Style No. 1. Highly polished mahogany box with lock and key, flexible connecting cord. Additional to listed price, each.....	\$4.00
<i>Flora</i>	3684 Style No. 3. Highly polished mahogany box, with lock and key; compartment with set of four lamp adapters (Edison, Thomson-Houston, Westinghouse, Weston); flexible connecting cord with plug contact to fit lamp adapters. Additional to listed prices, each...	10.00

For Alternating Current Circuits.



No. 3683.

<i>Fergus</i>	3683 Style No. 1. Highly polished mahogany box, with compartment box with lock and key. The compartment is intended for the reception of the flexible connecting cord and one or more lamp adapters. Additional to listed price, each.....	2.50
---------------	--	------



Plugs, Cords and Lamp Adapters.

The cut shows the flexible conductor, with plug contact for inserting in the Adapters and for quickly reversing the current. These Lamp Adapters are made in four styles—viz., for Edison, Thomson-Houston, Westinghouse and Weston sockets.

Code Word.	List No.	List Price.
<i>Clayish</i>	2629 Price of Single Lamp Adapters, each.....	\$1.25
<i>Claymore</i>	2630 Flexible Connecting Cord, with plug contact, if ordered separately, each.....	1.25
<i>Clean</i>	2631 Flexible Connecting Cord, with plain contact, if ordered separately, each.....	1.25
<i>Ferdinand</i>	3685 Mahogany Box with set of 4 Adapters and Flexible Cord, each.....	7.50

Whitney Electrical Measuring Instruments.

It is important in ordering instruments to state whether they are to be used in a vertical or horizontal position.

Whitney Voltmeters for Continuous Currents

Class A.

<i>Measly</i>	2295 No. 1. Scale 0 to 15 volts in $\frac{1}{10}$ volt div., each	20.00
<i>Measure</i>	2296 " 9. " 0 " 100 " 1 " " "	23.00
<i>Measured</i>	2297 " 15. " 0 " 150 " 1 " " "	25.00

NOTE—These instruments will heat if left too long in circuit.

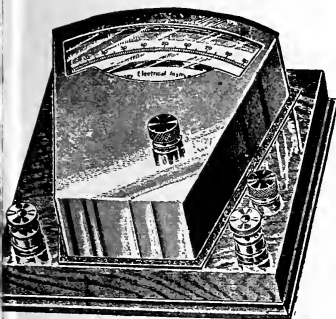
Class B.

<i>Measuring</i>	2298 No. 2. Scale 0 to 15 volts in $\frac{1}{10}$ volt div., each	25.00
<i>Meat</i>	2299 " 10. " 0 " 100 " 1 " " "	28.00
<i>Mechanic</i>	2304 " 16. " 0 " 150 " 1 " " "	30.00
<i>Mechanics</i>	2305 " 21. " 0 " 300 " 2 " " "	40.00
<i>Mechanism</i>	2306 " 25. " 0 " 600 " 5 " " "	50.00
<i>Medalet</i>	2307 " 27. " 0 " 750 " 5 " " "	60.00

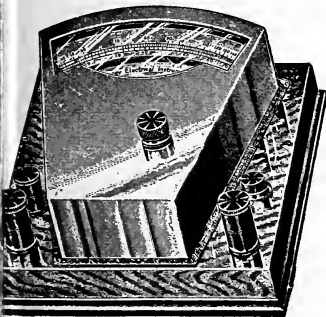
NOTE—These instruments may be left continuously in circuit by giving the contact button a quarter turn.

Whitney Voltmeters for Alternating Currents.

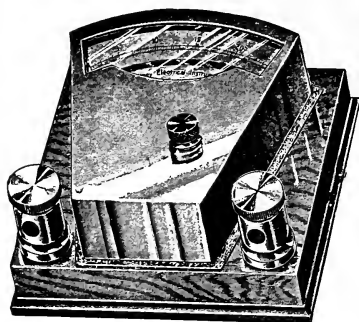
<i>Medalist</i>	2307 $\frac{1}{2}$ Scale 0 to 75 volts, reading from 15 to 20 volts in 1 volt divisions, from 20 to 75 volts in $\frac{1}{2}$ volt divisions, each.....	40.00
<i>Medallion</i>	2308 Scale 0 to 150 volts, reading from 30 to 40 volts in 2 volt divisions, from 40 to 150 volts in 1 volt divisions, each.....	45.00



No. 2296.



No. 2307 $\frac{1}{2}$



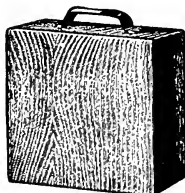
No. 2309.

Whitney Ammeters for Continuous Currents.

Code Word.	List No.	List Price.
<i>Medicinal</i>	2309 No. 31. Scale 0 to 10 amp. in $\frac{1}{10}$ amp. div., each	\$21.00
<i>Medicine</i>	2310 " 39. " 0 " 25 " $\frac{1}{2}$ " "	23.00
<i>Meditat</i>	2311 " 43. " 0 " 50 " $\frac{1}{2}$ " "	24.00
<i>Meditated</i>	2312 " 47. " 0 " 100 " 1 " "	28.00
<i>Medium</i>	2313 " 51. " 0 " 150 " 1 " "	30.00
<i>Medley</i>	2314 " 55. " 0 " 280 " 2 " "	35.00
<i>Medusa</i>	2315 " 61. " 0 " 400 " 5 " "	45.00
<i>Meek</i>	2316 " 65. " 0 " 500 " 5 " "	50.00
<i>Meekly</i>	2317 " 66. " 0 " 600 " 5 " "	55.00
<i>Meekness</i>	2318 " 67. " 0 " 700 " 7 " "	60.00
<i>Meerschaum</i>	2319 " 68. " 0 " 800 " 10 " "	65.00
<i>Meeting</i>	2320 " 69. " 0 " 1000 " 10 " "	70.00

Whitney Ammeters for Alternating Currents.

<i>Mellow</i>	2321 Scale 0 to 5 amperes, from 1 to 5 amperes in $\frac{1}{10}$ ampere divisions, each.....	45.00
<i>Melody</i>	2322 Scale 0 to 25 amperes, from 5 to 25 amperes, in $\frac{1}{2}$ ampere divisions, each.....	50.00
<i>Melon</i>	2323 Scale 0 to 50 amperes, from 10 to 50 amperes, in $\frac{1}{2}$ ampere divisions, each.....	55.00
<i>Melt</i>	2324 Scale 0 to 100 amperes, from 10 to 100 amperes, in 1 ampere divisions, each.....	60.00
<i>Mitted</i>	2325 Scale 0 to 150 amperes, from 15 to 150 amperes, in 1 ampere divisions, each.....	65.00
<i>Melting</i>	2326 Scale 0 to 200 amperes, from 20 to 200 amperes, in 2 ampere divisions, each.....	70.00
<i>Member</i>	2327 Scale 0 to 300 amperes, from 30 to 300 amperes, in 2 ampere divisions, each.....	75.00
<i>Membrane</i>	2328 Scale 0 to 400 amperes, from 40 to 400 amperes, in 4 ampere divisions, each.....	80.00
<i>Memento</i>	2329 Scale 0 to 500 amperes, from 50 to 500 amperes, in 5 ampere divisions, each.....	85.00



No. 2330.

Carrying Cases for Whitney Instruments.



No. 2331.

<i>Memoir</i>	2330 Wooden Carrying Case, with handle, each.....	1.00
<i>Memorial</i>	2331 Leather Carrying Case, with handle and shoulder strap, each.....	4.00

Bristol's Recording Ampere Meters.

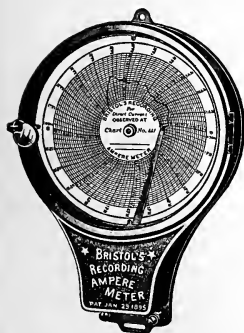
For Direct Current.

<i>Sard</i>	21370	Working range to 12 amperes, 24-hour chart, total range 0 to 15 amperes.....	60.00
<i>Sardachute</i>	21371	Working range to 25 amperes, 24-hour chart, total range 0 to 30 amperes.....	60.00
<i>Sardun</i>	21372	Working range to 50 amperes, 24-hour chart, total range 0 to 60 amperes.....	60.00
<i>Sardel</i>	21373	Working range to 165 amperes, 24-hour chart, total range 0 to 180 amperes.....	60.00
<i>Sardine</i>	21374	Working range to 270 amperes, 24-hour chart, total range 0 to 300 amperes.....	80.00
<i>Sardins</i>	21375	Working range to 550 amperes, 24-hour chart, total range 0 to 600 amperes.....	80.00
<i>Satchel</i>	21425	Working range to 1100 amperes, 24-hour chart, total range 0 to 1200 amperes.....	80.00
<i>Sate</i>	21426	Working range to 2200 amperes, 24-hour chart, total range 0 to 2400 amperes.....	90.00
<i>Sateless</i>	21427	Working range to 3300 amperes, 24-hour chart, total range 0 to 3600 amperes.....	100.00

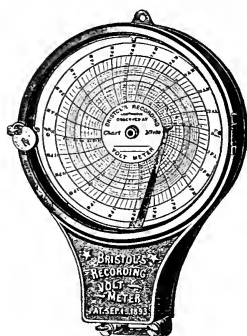
For Alternating Current.

<i>Satelite</i>	21428	For 8400 Alts. per minute, working range to 8 amperes, 24-hour chart, total range 0 to 10 amperes.....	60.00
<i>Satchlions</i>	21429	For 15000 Alts. per minute, working range to 80 amperes, 24-hour chart, total range 0 to 100 amperes.....	60.00
<i>Acop</i>	25591	For 15000 Alternaions per minute, working range to 20 Amperes 24 hours chart.....	60.00
<i>Acrylic</i>	25592	For 15000 Alternaions per minute, working range to 50 Amperes, 24 hours chart.....	60.00
<i>Acorned</i>	25593	For 7200 Alternaions per minute, working range to 130 Amperes, 24 hour chart.....	60.00

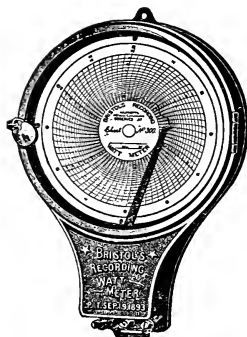
Ink and 100 charts with each instrument. Meters for other ranges made to order.



No. 21370.



No. 21379.



No. 21893.

Bristol's Recording Voltmeters.

For Direct Current.

Code Word.	List No.		List Price. Each.
<i>Sardinian</i>	21376	Working range to 5 volts, 24-hour chart, total range 0 to 6 volts	\$60.00
<i>Sardoin</i>	21377	Working range to 25 volts, 24-hour chart, total range 0 to 25 volts	60.00
<i>Sardonie</i>	21378	Working range to 55 volts, 24-hour chart, total range 0 to 60 volts	60.00
<i>Sardonys</i>	21379	Working range to 110 volts, 24-hour chart, total range 0 to 120 volts	60.00
<i>Saree</i>	21380	Working range to 120 volts, 24-hour chart, total range 0 to 130 volts	60.00
<i>Sarguaso</i>	21381	Working range to 130 volts, 24-hour chart, total range 0 to 140 volts	60.00
<i>Sari</i>	21382	Working range to 260 volts, 24-hour chart, total range 0 to 280 volts	60.00
<i>Sarigue</i>	21383	Working range to 275 volts, 12-hour chart, total range 0 to 300 volts	60.00
<i>Sark</i>	21384	Working range to 550 volts, 24-hour chart, total range 0 to 600 volts	60.00
<i>Sarlac</i>	21385	Working range to 550 volts, 12-hour chart, total range 0 to 600 volts	60.00
<i>Sarlyk</i>	21386	Working range to 600 volts, 24-hour chart, total range 0 to 650 volts	60.00

For Alternating Current.

<i>Sarking</i>	21387	Working range to 60 volts, 24-hour chart, total range 0 to 65 volts	60.00
<i>Sarmatic</i>	21389	Working range to 110 volts, 24-hour chart, total range to 120 volts	60.00
<i>Sarment</i>	21390	Working range to 120 volts, 24-hour chart, total range to 130 volts	60.00
<i>Sarmentucus</i>	21391	Working range to 150 volts, 24-hour chart, total range 0 to 160 volts	60.00

Bristol's Recording Watt Meters.

For Direct Current.

<i>Sarmentose</i>	21392	Working range to 5 K-W, all voltages, 24-hour chart, total range 0 to 6 Kilo Watts	70.00
<i>Sarn</i>	21393	Working range to 15 K-W, all voltages, 24-hour chart, total range 0 to 18 Kilo Watts	70.00
<i>Sarony</i>	21394	Working range to 25 K-W, all voltages, 24-hour chart, total range 0 to 30 Kilo Watts	70.00
<i>Saros</i>	21395	Working range to 75 K-W, all voltages, 24-hour chart, total range 0 to 90 Kilo Watts	85.00
<i>Sarplar</i>	21396	Working range to 150 K-W, all voltages, 12-hour chart, total range 0 to 180 Kilo Watts ..	85.00

Ink and 100 charts with each instrument. Meters for other ranges made to order.



No. 6843.

Thompson Recording Watt Meters.

The Thompson Recording Watt Meter is a motor meter and measures accurately the amount of power consumed in the circuit upon which it is placed. It is designed for use on both alternating and direct currents, and for the measurement of light or power energy in either large or small quantities. The following are the standard sizes and net prices:

TWO WIRE, 50 VOLTS.

Code Word.	List No.	Amperes.	Lamps 16 C. P.	List Price Each.
<i>Nabob</i>	6843	10	10	25.00
<i>Nacre</i>	6540	15	15	30.00
<i>Nacrite</i>	6541	25	25	36.00
<i>Naind</i>	6542	50	50	45.00
<i>Naidor</i>	6542½	75	75	55.00
<i>Nail</i>	6543	100	100	70.00
<i>Nailing</i>	6544	150	150	80.00
<i>Nailed</i>	6950	300	300	110.00
<i>Naitely</i>	6951	600	600	150.00
<i>Naked</i>	6964	1,200	1,200	250.00
<i>Nob</i>	6964½	2,500	2,500	330.00
<i>Nobit</i>	6965½	5,000	5,000	370.00
<i>Noblum</i>	6968½	8,000	8,000	400.00

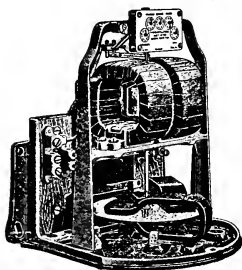
Thirty Volt Meters for use in connection with Constant Potential Arc Lighting Circuits will be furnished at the price of the same Ampere capacity of 50 Volt Meters.

TWO WIRE, 100 TO 110 VOLTS.

<i>Nankeen</i>	6935	5	10	27.50
<i>Nape</i>	6734	10	20	30.00
<i>Naptha</i>	6565	15	30	33.00
<i>Napkin</i>	6566	25	50	45.00
<i>Napless</i>	6567	50	100	50.00
<i>Nacarut</i>	6567½	75	150	70.00
<i>Nappy</i>	6568	100	200	80.00
<i>Narcissus</i>	6569	150	300	100.00
<i>Nach</i>	6569½	200	400	110.00
<i>Narcotic</i>	6954	300	600	130.00
<i>Nacker</i>	6954½	450	900	160.00
<i>Narrative</i>	6955	600	1,200	190.00
<i>Narrow</i>	6965	1,200	2,400	320.00
<i>Saprot</i>	6966	2,500	5,000	380.00
<i>Sapsogo</i>	6967	5,000	10,000	425.00
<i>Sapskull</i>	6968	8,000	16,000	460.00

THREE WIRE, 220 VOLTS.

<i>Narrowing</i>	6735	7½	33	35.00
<i>Narrower</i>	6563	15	66	50.00
<i>Nasal</i>	6597	25	110	60.00
<i>Natal</i>	6570	50	220	75.00
<i>Nacrous</i>	6570½	75	300	85.00
<i>Nation</i>	6571	100	440	100.00
<i>Native</i>	6572	150	60	125.00



No. 6948.

Thomson Recording Watt Meters—(Continued.)

For Power Service.

Two WIRE, 220 VOLTS.

Code Word.	List No.	Amperes.	Horse-power.	List Price. Each.
<i>Naticely</i>	6948	5	1½	\$ 36.50
<i>Nativity</i>	6538	15	3½	50.00
<i>Natural</i>	6555	25	7	60.00
<i>Naturalist</i>	6556	50	15	70.00
<i>Nadab</i>	6556½	75	20	85.00
<i>Naturalize</i>	6557	100	25	100.00
<i>Nature</i>	6558	150	40	120.00
<i>Nadir</i>	6558½	200	50	135.00
<i>Nausea</i>	6813	300	80	150.00
<i>Nadelstein</i>	6813½	450	125	190.00
<i>Nace</i>	6814	600	160	220.00
<i>Navigable</i>	6966	1,200	320	300.00
<i>Nacee</i>	6966½	2,500	700	425.00
<i>Nacuse</i>	6970½	5,000	1,400	475.00
<i>Nafe</i>	6971½	8,000	2,200	520.00

Two WIRE, 500 VOLTS.

<i>Astride</i>	6949	3	1½	\$ 40.00
<i>Naff</i>	6950½	10	5	55.00
<i>Astringe</i>	6539	15	7½	60.00
<i>Astringency</i>	6559	25	15	65.00
<i>Astringent</i>	6560	50	30	85.00
<i>Nag</i>	6560½	75	50	100.00
<i>Astringing</i>	6561	100	60	110.00
<i>Astrulogy</i>	6562	150	100	125.00
<i>Naggy</i>	6562½	200	120	150.00
<i>Astronomer</i>	6815	300	200	175.00
<i>Nagor</i>	6815½	450	300	225.00
<i>Astute</i>	6816	600	400	275.00
<i>Astutely</i>	6967½	1,200	800	375.00
<i>Nuicant</i>	6973½	2,500	1,600	450.00
<i>Nuis</i>	6974½	5,000	3,200	500.00
<i>Nuif</i>	6975½	8,000	5,400	550.00

Primary Circuits

1,000 TO 2,000 VOLTS. PRICES INCLUDE TRANSFORMER.

		Amperes.	
<i>Nailball</i>	6572½	10.....	80.00
<i>Navigably</i>	6573	20.....	90.00
<i>Nucigate</i>	6574	30.....	100.00
<i>Navigitor</i>	6575	60.....	125.00
<i>Navigation</i>	6576	120.....	160.00
<i>Neel</i>	6577	300.....	210.00
<i>Nailbrush</i>	6577½	600.....	300.00

Portable Meters for Street Car Testing, Etc.

500 VOLTS.

<i>Nailer</i>	21000	1½ H. P.,	3 Amp.....	55.00
<i>Naileress</i>	21001	7½ " "	15 "	70.00
<i>Nailery</i>	21002	15 " "	25 "	85.00
<i>Nailheaded</i>	21003	30 " "	50 "	100.00

Page 262. For Navigable, "No. 6966," read
"No. 69664."

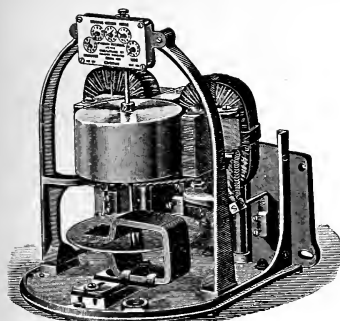
Thomson Recording Watt Meters—(Continued.)

Arc Circuit Meters.

Code Word.	List No.		List Price. Each.
<i>Nainsook</i>	21004	4 lights, 6 $\frac{1}{10}$ Amp.....	65.00
<i>Naissant</i>	21005	4 " 10 "	65.00
<i>Natrel</i>	21006	8 " 6 $\frac{1}{10}$ "	75.00
<i>Naivete</i>	21007	8 " 10 "	75.00

Arc Circuit Station Meters.

<i>Namelessly</i>	21008	35 lights, 6 $\frac{1}{10}$ Amp	110.00
<i>Nameplate</i>	21009	35 " 10 "	110.00
<i>Namingly</i>	21010	50 " 6 $\frac{1}{10}$ "	125.00
<i>Nan</i>	21011	50 " 10 "	125.00
<i>Nandor</i>	21012	65 " 6 $\frac{1}{10}$ "	135.00
<i>Nandus</i>	21013	65 " 10 "	135.00
<i>Nantes</i>	21014	80 " 6 $\frac{1}{10}$ "	150.00
<i>Nap</i>	21015	80 " 10 "	150.00



No. 21404.

The Scheeffer Recording Watt Meter.

For Alternating Circuits.

LIGHTS RATED ON A BASIS OF 50 WATTS PER LAMP.

50 Volts.

<i>Sartorial</i>	21404	10 Lights, 10 Amperes	\$25.00
<i>Sartorious</i>	21405	15 " 15 "	30.00
<i>Sary</i>	21406	20 " 20 "	34.00
<i>Sash</i>	21407	30 " 30 "	37.00
<i>Sashorn</i>	21408	40 " 40 "	41.00
<i>Sasin</i>	21409	50 " 50 "	45.00
<i>Sassinfras</i>	21410	75 " 75 "	55.00
<i>Sassanage</i>	21411	100 " 100 "	70.00
<i>Sasse</i>	21412	150 " 150 "	80.00
<i>Sassolin</i>	21413	300 " 300 "	110.00

100 to 110 Volts.

<i>Sassoral</i>	21414	10 Lights, 5 Amperes	27.00
<i>Sassoralla</i>	21415	20 " 10 "	30.00
<i>Sassybark</i>	21416	30 " 15 "	33.00
<i>Sastra</i>	21417	40 " 20 "	41.00
<i>Sat</i>	21418	50 " 25 "	45.00
<i>Satan</i>	21419	60 " 30 "	47.00
<i>Satanic</i>	21420	70 " 35 "	48.00
<i>Satanical</i>	21421	100 " 50 "	50.00
<i>Satanism</i>	21422	150 " 75 "	70.00
<i>Satanist</i>	21423	200 " 100 "	80.00
<i>Satanophony</i>	21424	300 " 150 "	100.00



The Shallenberger Meter.

For Alternating Current.

The meter is a direct reading instrument, recording the amount of current which has passed through it, on a dial (herewith illustrated) presenting much the same appearance as that of an ordinary gas meter. The unit of measurement is the "ampere hour."

Code Word.	List No.		List Price- Each.
<i>Scrupter</i>	21397	5 Amperes.....	\$13.75
<i>Scursia</i>	21398	10 ".....	15.00
<i>Scarm</i>	21399	20 ".....	18.75
<i>Scursipilla</i>	21400	40 ".....	22.50
<i>Scars</i>	21401	80 ".....	31.25
<i>Scarsent</i>	21402	120 ".....	43.75
<i>Scart</i>	21403	160 ".....	50.00

Duncan Alternating Current Recording Meters

For Lamp Hours or Ampere Hours.

Code Word.	List No.	For 50 Volt Lamps.	List Price- Each.
<i>Scap</i>	21645	5 16 c. p. Lamps Capacity or 5 Amperes....	\$25.00
<i>Scarl</i>	21646	10 " " " " 10 ".....	30.00
<i>Scrabble</i>	21647	15 " " " " 15 ".....	33.00
<i>Scrag</i>	21648	20 " " " " 20 ".....	36.00
<i>Scramble</i>	21649	25 " " " " 25 ".....	38.00
<i>Scrap</i>	21650	30 " " " " 30 ".....	41.00
<i>Scrapa</i>	21651	40 " " " " 40 ".....	45.00
<i>Scratc</i>	21652	50 " " " " 50 ".....	50.00
<i>Scratel</i>	21653	60 " " " " 60 ".....	60.00
<i>Scrak</i>	21654	80 " " " " 80 ".....	70.00
<i>Scraun</i>	21655	100 " " " " 100 ".....	80.00
<i>Screech</i>	21656	120 " " " " 120 ".....	100.00
<i>Scrica</i>	21657	160 " " " " 160 ".....	120.00
<i>Scribble</i>	21658	200 " " " " 200 ".....	

For 100 Volt Lamps.

<i>Scerthe</i>	21659	10 16 c. p. Lamps Capacity or 5 Amperes....	28.00
<i>Scerup</i>	21660	20 " " " " 10 ".....	30.00
<i>Scerip</i>	21661	30 " " " " 15 ".....	33.00
<i>Scerpt</i>	21662	40 " " " " 20 ".....	37.00
<i>Scerpture</i>	21663	50 " " " " 25 ".....	41.00
<i>Scercrener</i>	21664	60 " " " " 30 ".....	45.00
<i>Scerfulc</i>	21665	80 " " " " 40 ".....	50.00
<i>Sceroll</i>	21666	100 " " " " 50 ".....	55.00
<i>Scerub</i>	21667	120 " " " " 60 ".....	60.00
<i>Sceruple</i>	21668	160 " " " " 80 ".....	75.00
<i>Scerating</i>	21669	200 " " " " 100 ".....	85.00
<i>Sceratura</i>	21670	240 " " " " 120 ".....	95.00
<i>Scend</i>	21671	320 " " " " 160 ".....	115.00
<i>Scerfle</i>	21672	400 " " " " 200 ".....	135.00

Primary Meters for 1,000 or 2,000 Volt Currents.

<i>Scull</i>	21673	5 Amperes.....	26.50
<i>Scullery</i>	21674	10 ".....	30.00
<i>Scullion</i>	21675	15 ".....	36.00
<i>Sculpture</i>	21676	20 ".....	40.00
<i>Scuum</i>	21677	25 ".....	43.00



Duncan Alternating Current Recording Meters (Continued.)

Primary Meters for 1,000 or 2,000 Volt Currents—(Continued.)

Code Word.	List No.		Price List. Each.
<i>Scupper</i>	21678	30 Amperes.....	46.00
<i>Scurf</i>	21679	40 ".....	49.00
<i>Scurrilous</i>	21680	50 ".....	54.00
<i>Scurry</i>	21681	60 ".....	60.00
<i>Scutcheon</i>	21682	80 ".....	72.00
<i>Scuttle</i>	21683	100 ".....	84.00
<i>Scythe</i>	21684	120 ".....	96.00
<i>Sea</i>	21685	160 ".....	120.00
<i>Seaboard</i>	21686	200 ".....	144.00



Duncan Recording Wattmeters for Alternating Currents.

Lamp Rating based upon 50 Watt Lamps.

For 50 Volt Circuits.

<i>Seafarer</i>	21687	5 16 c. p. Lamps Capacity or	5 Amperes....	\$25.00
<i>Seal</i>	21688	10 " " " "	10 ".....	25.00
<i>Seam</i>	21689	15 " " " "	15 ".....	30.00
<i>Seaman</i>	21690	20 " " " "	20 ".....	33.00
<i>Seamstress</i>	21691	25 " " " "	25 ".....	36.00
<i>Sear</i>	21692	30 " " " "	30 ".....	38.00
<i>Searck</i>	21693	40 " " " "	40 ".....	41.00
<i>Season</i>	21694	50 " " " "	50 ".....	45.00
<i>Seaworthy</i>	21695	60 " " " "	60 ".....	50.00
<i>Seal</i>	21696	80 " " " "	80 ".....	60.00
<i>Sebecomus</i>	21697	100 " " " "	100 ".....	70.00
<i>Seant</i>	21698	120 " " " "	120 ".....	80.00
<i>Seede</i>	21699	160 " " " "	160 ".....	100.00
<i>Seckel</i>	21700	200 " " " "	200 ".....	120.00

For 100 Volt Circuits.

<i>Seclada</i>	21701	10 16 c. p. Lamps Capacity or	5 Amperes....	28.00
<i>Second</i>	21702	20 " " " "	10 ".....	30.00
<i>Seecret</i>	21703	30 " " " "	15 ".....	33.00
<i>Secretary</i>	21704	40 " " " "	20 ".....	37.00
<i>Secrete</i>	21705	50 " " " "	25 ".....	41.00
<i>Seet</i>	21706	60 " " " "	30 ".....	45.00
<i>Seetile</i>	21707	80 " " " "	40 ".....	50.00
<i>Seetion</i>	21708	100 " " " "	50 ".....	55.00
<i>Seetor</i>	21709	120 " " " "	60 ".....	60.00
<i>Seetuir</i>	21710	160 " " " "	80 ".....	75.00
<i>Seetun</i>	21711	200 " " " "	100 ".....	85.00
<i>Seetun</i>	21712	240 " " " "	120 ".....	95.00
<i>Seetate</i>	21713	320 " " " "	160 ".....	115.00
<i>Seetutice</i>	21714	400 " " " "	200 ".....	135.00

For Primary Circuits, 1,000 or 2,000 Volts.

(Price includes Transformer.)

<i>Sealtary</i>	21715	5 Amperes.....	75.00
<i>Sedge</i>	21716	10 ".....	80.00
<i>Sediment</i>	21717	15 ".....	85.00
<i>Sedition</i>	21718	20 ".....	90.00
<i>Sedure</i>	21719	25 ".....	95.00
<i>Sedulous</i>	21720	30 ".....	100.00
<i>Seed</i>	21721	40 ".....	110.00
<i>Seedy</i>	21722	50 ".....	118.00
<i>Seek</i>	21723	60 ".....	125.00
<i>Seem</i>	21724	80 ".....	140.00
<i>Seemly</i>	21725	100 ".....	150.00
<i>Seem</i>	21726	120 ".....	160.00
<i>Seer</i>	21727	160 ".....	175.00
<i>Seethe</i>	21728	200 ".....	190.00

Weston Portable Wattmeters.



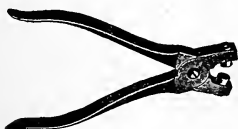
No 3686

Code Word.	List No.					Maximum Current.	Maximum Voltage.		List Price.		
<i>Ladyism</i>	3686	No.	0 to 150 watts in 1 watt divisions, 2 amperes, 150 volts, each					.....	\$70.00	
<i>Ladylike</i>	3687	{	" 1A	0	" 75	" $\frac{1}{2}$	" 2	" 75	" }	75.00
			" 0	" 150	" 1	" 2	" 150	" }			
<i>Lacerta</i>	3688 $\frac{1}{2}$	No. 1B, 0 to 150 watts in 1 watt divisions, for inspectors, sales agents and manufacturers of incandescent lamps, especially designed for ready connections to any lamp socket of any system. In a highly polished carrying case of cherry are contained the Wattmeter, a set of four lamp adapters, etc., same as furnished with the No. 3683 Inspectors' Voltmeter.								85.00	
						Maximum Current	Maximum Voltage				
<i>Lacertian</i>	3689	No. 2.	0 to 1,500 watts in 10 watt divisions, 10 amperes, 150 volts, each					...	70.00		
<i>Lacertilian</i>	3690	{	" 2A.	0	" 750	" 5	" 10	" 75	" }	75.00
			" 0	" 1,500	" 10	" 10	" 150	" }			
<i>Lacertine</i>	3691	" 3	0	" 3,750	" 25	" 25	" 150	"	.....	75.00
<i>Lacuna</i>	3692	{	" 3A	0	" 1,500	" 10	" 25	" 75	" }	80.00
			" 0	" 3,000	" 20	" 25	" 150	" }			
<i>Lactuca</i>	3693	" 4.	0	" 7,500	" 50	" 50	" 150	"	.....	75.00
<i>Lacunar</i>	3694	{	" 4A.	0	" 3,750	" 25	" 50	" 75	" }	80.00
			" 0	" 7,500	" 50	" 50	" 150	" }			
<i>Laminate</i>	3695	" 5	0	" 15,000	" 100	" 100	" 150	"	.....	80.00
<i>Lanary</i>	3695 $\frac{1}{2}$	{	" 5A.	0	" 7,500	" 50	" 100	" 75	" }	85.00
			" 0	" 15,000	" 100	" 100	" 150	" }			
<i>Lamellar</i>	3697	" 6	0	" 30,000	" 200	" 200	" 150	"	.....	85.00
<i>Lamelliform</i>	3698	{	" 6A.	0	" 15,000	" 100	" 200	" 75	" }	90.00
			" 0	" 30,000	" 200	" 200	" 150	" }			

The above prices include a Carrying Case of polished cherry. For all ranges from No. 3 upwards this Carrying Case contains a separate compartment for linen covered flexible cables furnished with the instrument. These cables are provided with special terminals to insure good contacts on the instruments, and are of sufficiently large cross-section to carry the maximum current for which the instrument is designed.



No. 6699.



No. 6970.



No. 6705.



No. 6968.

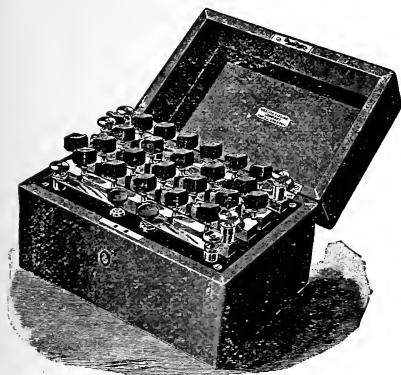
Meter Sealing Tools.

Code Word.	List No.	List Price.
<i>Atlantic</i>	6699	Large Size Sealing Tool, each..... \$9.50

<i>Atlantis</i>	6970	Small Pocket Sealing Tool, each..... 2.75
-----------------	-------------	--

<i>Atlas</i>	6705	Lead Seals and Wires for large tool, per 1,000..... 8.50
--------------	-------------	--

<i>Atmosphere</i>	6968	Lead Seals and Wires for Pocket Tool, per 1,000..... 8.50
		Meter Reading Books, each..... 1.35
		Meter Rate Chart, each..... 1.85



No. 2354.

Post Office Bridge and Rheostat.

<i>Michael</i>	2255	Same, without galvanometer..... 100.00
----------------	-------------	---



No. 2261.

Combination Bridge, Rheostat and Galvanometer.

Improved Form with Revolving Galvanometer.

This instrument consists of a sensitive Detector Galvanometer and an improved form of Wheatstone Bridge, with Rheostat, all arranged in one case so as to form a complete and perfect portable apparatus for measuring resistance.

We manufacture two sizes: No. 1 measures from one hundredth of an ohm to 111,000 ohms. It has on each arm bridge coils of 10 ohms, 100 ohms and 1,000 ohms. The Rheostat consists of three rows of ten coils each, the first rows being coils of one ohm each, designated "units," the second of ten ohms each, designated "tens," and the third of 100 ohms each, designated "hundreds."

The case is of polished mahogany, measuring $8\frac{3}{4} \times 8\frac{3}{4} \times 5\frac{1}{2}$ inches.

Code Word.	List No.		List Price.
			Each.
<i>Midship</i>	2260	No. 1 Instrument.....	\$ 75.00
<i>Midst</i>	2261	No. 2 "	85.00

No. 2 measures from one hundredth of an ohm to 1,110,000 ohms. The construction is the same as No. 1, but there is an additional row of ten one thousand ohm coils in the Rheostat. The size of the same is $8\frac{3}{4} \times 10 \times 5\frac{1}{2}$ inches.

The arrangement of coils is such that one plug only is used to each row, thus avoiding the multiplicity of bad connections on account of ill-fitting plugs, and making the reading as simple as possible. If, for instance, in balancing the bridge, it is required to put the plug of the "hundreds" row into "seven," of "tens" row into "five," and of units row into "three," instead of adding up the coils, one reads direct 753 ohms.



No. 25076.

Wheatstone Bridge.

Consisting of a detector galvanometer so constructed that it may be revolved independently of the case; Wheatstone Bridge and rheostat in case with hard rubber engraved face.

A card of instructions accompanies each instrument.

Code Word.	List No.	List Price.
<i>Sensitive</i>	25076 Each.....	\$80.00



Adjustable Transformer.

This Transformer is for use where the alternating current alone is available. It will give an alternating current of one to twenty amperes up to 30 volts pressure, and is particularly well adapted for hospital and dental work, where heavy currents are frequently used for cauterizing and operating lamps.

Prices on application.



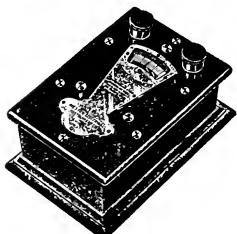
No. 23084.



No. 3680 with No. 3681.



No. 3446.



No. 9061.

The Queen Decade Testing Set

Code Word.	List No.	Price List Each.
<i>Silverbush</i>	23084 T 464, Queen "Decade" Portable Testing Set.....	\$125.00
<i>Silverfur</i>	23085 T 465, Queen "Decade" Portable Testing Set, without Galvanometer and Battery	100.00

The above Testing Set is recommended to such electricians as prefer the "Decade" plan of resistance coils.

The Wheatstone Bridge, Rheostat, D'Arsonval Galvanometer and Battery are contained in a finely polished mahogany box with carrying strap. Outside dimensions, 12 x 6½ x 5½ ins. Range .001 to 9,999,000 ohms.

"Acme" Portable Testing Set.

The component parts are Wheatstone Bridge, Rheostat, D'Arsonval Galvanometer, Battery, and Double Contact Key, in a mahogany case, having outside dimension 9 x 5½ x 5 ins., and weighing only seven pounds.

The bridge coils are six in number and admit of a ratio of one to one thousand on either arm.

The Rheostat has a total resistance of 11,110 ohms, hence the possible range of measurement is from .001 to 11,110,000 ohms.

Measurements can be made under all conditions of practical work close to dynamos, in large factories or on ship-board.

<i>Frances</i>	3680	T 460, "Acme" Portable Testing Set.....	100.00
<i>Francis</i>	3681	T 461, Leather Carrying Case, with shoulder strap.....	5.00
<i>Frederick</i>	3682	T 462, Flexible Contact Clutches for heavy conductors	5.00
<i>Detection</i>	3700	T 963, Tripod, with Clamp, to support in street work	7.50

Weston Circuit Tester and Ground Detector.

The Weston Ground Detector is an instrument for simply and quickly indicating the existence of grounds, and also for showing the insulation resistance of the circuits from hour to hour and day to day, and thus indicating any changes that may take place in the insulation resistance of the circuits.

<i>Coolly</i>	3446	Weston Circuit Tester and Ground Detector, for two-wire circuits, including computing device for quickly determining the insulation resistance without necessity of calculation	65.00
---------------	-------------	---	--------------

Weston Portable Galvanometer.

<i>Negative</i>	9061	No. 1, giving 1 millimeter scale deflection with 1 volt through 500,000 ohms, resistance 250 ohms	35.00
<i>Neglect</i>	9063	Leather Carrying Case for same, velvet lined, with handle and shoulder strap, lock and key	3.50

Queen-Wirt Ammeters and Voltmeters.



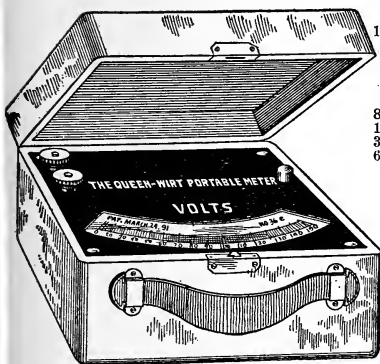
Queen-Wirt Meters are calibrated for either direct or alternating current circuits. When ordering instruments for alternating current, state the product of the number of pole of the generator by the number of revolutions per minute.

All instruments are Dead-Beat and this enables them to follow continual changes in the current or voltage without constant swinging. The circuit may be rapidly made or broken without driving the pointer violently to one side and probably injuring the instrument or throwing it out of calibration.

The front is of bronze with bright letters and scroll raised on a dead black ground.

Voltmeters for constant potential circuits have their scale divisions wider at the normal running point. Scales on other meters are nearly uniform.

Range.	Ammeters.	Direct. Alternating.	
		List Price Each.	
1 to 10 amperes.....		\$22.00	\$24.00
2 to 15 ".....		22.00	24.00
3 to 30 ".....		22.00	24.00
5 to 50 ".....		22.00	24.00
8 to 75 ".....		22.00	24.00
10 to 100 ".....		22.00	24.00
12 to 125 ".....		24.00	26.00
15 to 150 ".....		24.00	26.00
20 to 200 ".....		26.00	28.00
25 to 250 ".....		26.00	28.00
30 to 300 ".....		26.00	28.00
40 to 400 ".....		28.00	30.00
50 to 500 ".....		28.00	30.00
60 to 600 ".....		28.00	30.00
100 to 1000 ".....		28.00	30.00
Voltmeters.			
2 to 15 volts.....		24.00	26.00
3 to 25 ".....		24.00	26.00
8 to 75 ".....		24.00	26.00
80 to 130 ".....		24.00	26.00
15 to 150 ".....		24.00	26.00
30 to 300 ".....		26.00	28.00
60 to 600 ".....		28.00	30.00



Portable Instruments.

These instruments are light and small, weighing about three pounds each and measuring 6½ x 6½ x 3 inches over all. The cases are of mahogany. The instruments are dead-beat.

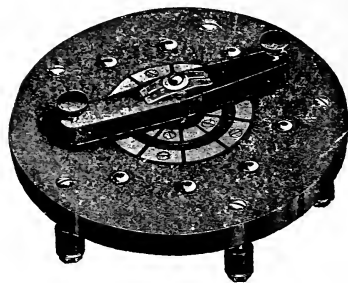
In ordering Portable Meters for alternate current circuits follow previous instructions given for switchboard meters.

Range.	Ammeters.	Direct. Alternating.	
		List Price Each.	
2 to 15 amperes.....		28.00	30.00
10 to 100 ".....		30.00	32.00
15 to 150 ".....		32.00	34.00
Voltmeters.			
15 to 150 volts.....		30.00	32.00
30 to 300 ".....		32.00	34.00
60 to 600 ".....		35.00	37.00
Leather carrying case with shoulder-strap for Portable Voltmeter or Ammeter.....			5.00

The prices on double instruments are governed by the combination selected and will be furnished on application.

Voltmeter Switches.

Western Electric Switch.

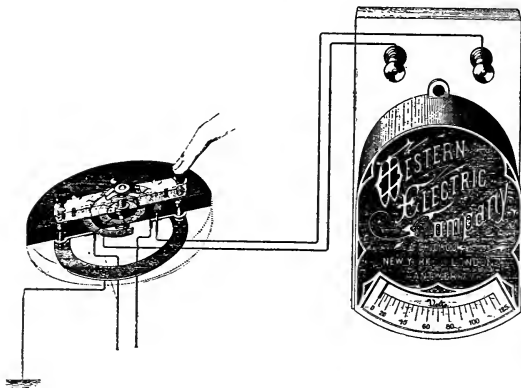


No. 8720.

This Switch is used for connecting a voltmeter across the mains of any number of dynamos or circuits without danger of reversing the polarity through the instrument. It is also provided with a ground test for each side of the different circuits, which measures with the voltmeter the number of volts lost to ground by simply pressing one of the buttons, from which reading the actual resistance in ohms to ground of the circuit may be determined. Switches of this design are made for any number of circuits or dynamos lettered and numbered as desired.

Code Word.	List No.	List Price
<i>Simlow</i>	23098 4 Point, each..	\$13.00
<i>Simiter</i>	23099 6 " "	14.50
<i>Simmer</i>	23100 8 " "	16.00
<i>Simnel</i>	23101 10 " "	18.00
<i>Simonine</i>	23102 12 " "	20.00
<i>Simonist</i>	23103 14 " "	24.00
<i>Julia</i>	8720 16 " "	30.00

Diagram of Connections for a Western Electric Voltmeter Switch.

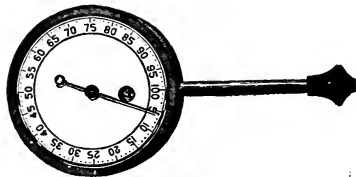


The size of the hard rubber base for a 2-point Voltmeter Switch is 2 x 5 ins. For a 4 to 14-point the base is round and is 6½ in. diameter. For a 16 to 24-point switch it is 10½ in. diameter.

A similar instrument is also made for connecting polarity indicators, calibrating ammeters or other series instruments in arc circuits.

Speed Indicators.

The "Lightning" Speed Indicator.

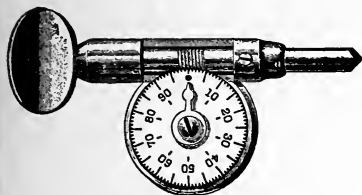


No. 3673.

It registers as high as 1,000, as seen by the cut. The body constitutes the handle. Has a rubber, tip on the spindle, and the face covered with a watch crystal. Will stand over 15,000 rotations per minute.

Citron 3673 Each..... 3.00

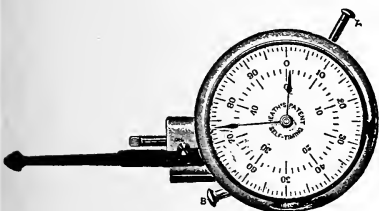
Speed Indicators—(Continued).



No. 3674.

Universal Speed Indicator.

Code Word.	List No.	List Price.
Citizen	3674	Single Indicator, each.....\$1.00



No. 2051.

Heath Speed Indicator.

2051	Heath Self-Timing, Self-Registering Speed Indicator, each	20.00
------	--	-------



No. 2050.







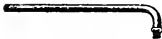







Standard Portable Tachometer.

The scales on the dial are graduated as follows: 40 to 200, 120 to 600, and 600 to 3,000, which gives a maximum range of 40 to 3,000 turns per minute. Thus it is possible to measure directly both high and low speeds with the same instrument.

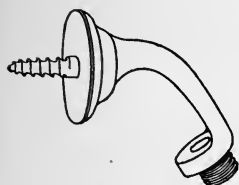
Cited	2050	Standard Portable Tachometer, range 40 to 3 000 revolutions, each.....	60.00
-------	------	---	-------

FIXTURES.

Bracket Tubes.

		Code Word.	List No.	List Price. Per 100.
	No. 21895.		No. 21899.	
		<i>Shoe</i>	21895 4 inch	\$14.00
		<i>Shooter</i>	21896 6 "	16.00
		<i>Shower</i>	21897 8 "	20.00
		<i>Shred</i>	21898 10 "	23.00
	No. 21900.		No. 21902.	
		<i>Shreo</i>	21899 45 degree rigid, ball joint.....	17.00
	No. 21903.		No. 21905.	
		<i>Shreed</i>	21900 6 inch	26.00
		<i>Shriek</i>	21901 10 "	33.00
	No. 21906.		No. 21910.	
		<i>Shrill</i>	21902 Curve Nipple	10.00
		<i>Shrine</i>	21903 6 inch	36.00
		<i>Shrink</i>	21904 10 "	43.00
	No. 21914.		No. 21915.	
		<i>Shrinkage</i>	21905 Extends 8 inches	35.00
		<i>Shrinker</i>	21906 4 inches	14.00
		<i>Shrinkingly</i>	21907 6 "	16.00
		<i>Shrite</i>	21908 8 "	20.00
		<i>Shriently</i>	21909 10 "	23.00
	No. 21916.		No. 21917.	
		<i>Shrive</i>	21910 4 inch	14.00
		<i>Shrirel</i>	21911 6 "	16.00
		<i>Shriev</i>	21912 8 "	20.00
		<i>Shricing</i>	21913 10 "	23.00
	No. 21918.		No. 21919.	
		<i>Shroff</i>	21914 Extends 3 1/4 inches	30.00
		<i>Shroffage</i>	21915 90 degree Bracket.....	16.00
		<i>Shrood</i>	21916 Turkey-neck Bracket.....	35.00
		<i>Shroud</i>	21917 Snake Bracket	35.00
		<i>Shrouding</i>	21918 Swan Bracket.....	35.00
		<i>Shroudless</i>	21919 Duck-neck Bracket.....	35.00

Nos. 21899, 21902 and 21915 are of the same size tubing as the other brackets listed.



No. 21921.



No. 21922.



No. 21923.



No. 21924.

Fixtures.—(Continued.)

Electric Brackets.

Screw Bracket.

Code Word.	List No.	List Price.
<i>Shroudplate</i>	21920 Rough brass, per 100	\$11.00
<i>Shroudy</i>	21921 Polished brass, lacquered, per 100	22.00

This is a short screw bracket, very strong, makes a convenient bracket for window lighting, border or ceiling work. Extends from wall one and five-eighths inches.

Partition Bracket.

For attaching to back of partitions, etc., includes flange. The socket, shade and shade-holder are extra.

<i>Shrove</i>	21922 Partition Bracket, polished brass, each70
---------------	---	-----

Shelf Bracket,

With wall plate, has six inch drop to socket nozzle. The socket, shade and shade holder are extra.

<i>Shrovetide</i>	21923 Shelf Bracket, polished brass, each75
-------------------	---	-----

Special Shelf Bracket.

For attaching underneath a shelf, furnished with wall plate. Socket, shade and shade holder extra.

<i>Shroving</i>	21924 Special Shelf Bracket, polished brass, each60
-----------------	--	-----



No. 21928.



No. 21931.



No. 21932.



No. 21933.



No. 21934.



No. 21935.

Fixtures.—(Continued.)

Almond Flexible Bracket.

These prices include bracket only.

Code Word.	List No.	List Price. Each.
<i>Shron</i>	21925 6 inches long	\$0.54
<i>Shron</i>	21926 9 " " .....	.60
<i>Shrub</i>	21927 12 " " .....	.75
<i>Shrubberg</i>	21928 15 " " .....	.90
<i>Shrubiness</i>	21929 18 " "	1.11
<i>Shrubby</i>	21930 24 " "	1.50

Electric Wall Brackets.

<i>Shrubless</i>	21931 1 light, with canopy and crowfoot	2.00
<i>Shrugf</i>	21932 2 " "	3.00

Socket, shade and shade holder are extra.

Switchboard Bracket.

Includes canopy and nuts for attaching. The socket, shade and shadeholder are extra.

<i>Shrug</i>	21933 1 light.....	1.25
<i>Shrunken</i>	21934 2 "	1.75

Hall Bracket.

Including canopy and crowfoot. Socket, shade and shadeholder are extra.

<i>Shru</i>	21935 1 light bracket.....	1.50
-------------	----------------------------	------



No. 21949.

Fixtures—(Continued.)

Ornamental Brackets.

Brass Brackets.

With Husks.



No. 21950.

No. 21951.

Code Word.	List No.	List Price. Each.
<i>Shunti</i>	21949 2 light, polished brass or rich gilt	\$18.00
<i>Shut</i>	21950 1 light, polished brass or rich gilt	7.00
<i>Shute</i>	21951 1 light, polished brass or rich gilt	10.00

Iron Brackets.

For interior or Exterior Use.

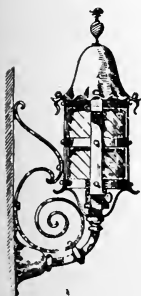
<i>Shutter</i>	21952 1 light bracket, black iron finish, with flint opalescent ball.....	10.00
<i>Shuttered</i>	21953 1 light bracket, black iron finish, with flint opalescent ball.....	8.00
<i>Shuttle</i>	21954 1 light bracket, black iron finish, flint opalescent glass cylinder.....	27.00
<i>Shuttlebox</i>	21955 1 light bracket, black iron finish, flint opalescent glass stalactite	20.00



No. 21952.



No. 21953.



No. 21954.



No. 21955.

Fixtures—(Continued.)

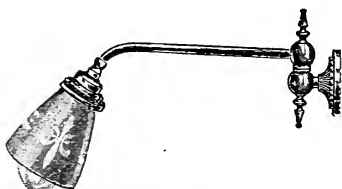
Swing Brackets.

Shades, shade holders and sockets are not included in the price of the brackets. Canopy and crow foot are furnished with each bracket. Brackets are polished brass.



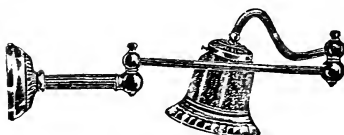
No. 21941.

Code Word.	List No.	List Price Each.
<i>Shuffleboard</i>	21941	1 light Electric Swing Bracket..... \$4.00



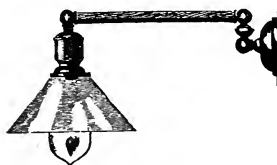
No. 21942.

<i>Shufflecap</i>	21942	1 light single swing, extends 12 inches... 1.20
<i>Shuffler</i>	21943	1 light double swing, extends 24 inches.. 1.70



No. 21944.

<i>Shuffling</i>	21944	1 light single swing, extends 12 inches... 1.20
<i>Shug</i>	21945	1 light double swing, extends 24 inches.. 2.40



No. 21946.

<i>Shumac</i>	21946	1 light Electric single swing bracket, extends 12 inches..... 1.50
<i>Shun</i>	21947	1 light Electric double swing bracket, extends 24 inches 3.00



No. 21948.

Two-Light Electric Bracket.

Two arms, single swing, spread 24 inches.

<i>Shunless</i>	21948	2 light Electric bracket..... 5.50
-----------------	-------	------------------------------------



No. 21936.

Fixtures—(Continued.)

Electric Brackets.

Sockets, shades and shadeholders are extra:

Code Word.	List No.	List Price. Each.
<i>Shurk</i>	21936 1 light Bracket with wall plate... Extends 10 inches.	\$1.80



No. 21937.

Two-Light Wall Brackets.

Including canopy and crowfoot.

<i>Shudder</i>	21937 2-light bracket, polished brass.....	3.50
----------------	--	------



No. 21938.

<i>Shade</i>	21938 2-light bracket, polished brass.....	2.50
--------------	--	------



No. 21940.

Swing Standards.

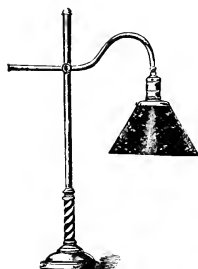
Standards are furnished without shade, shadeholder or socket.

<i>Shuffle</i>	21939 1-light, single swing standard	3.25
<i>Shuff</i>	21940 2-light, " " "	4.75

The arms extend 12 inches.

This fixture is well adapted for banks and counting houses.

The Standards will be furnished wired for 25 cents extra for each arm.



No. 759.



No. 21960.

Fixtures—(Continued.)

Desk Portables.

Code Word.	List No.	List Price. Each.
<i>Fanny</i>	759 Extension Portable.....	\$4.00
	Height, 24 inches. Extension 12 inches.	

The arm can be moved up and down, in and out, and from side to side.



No. 21961.



No. 21962.

Plain Standard Portable.

Brass finish. Height, 24 inches.

<i>Shyly</i>	21960 Portable, only, without shade.....	3.00
<i>Shyness</i>	21961 " " " "	3.00
<i>Syn</i>	21962 Portable, only.....	1.50

Flexible Portable.

<i>Depth</i>	8689 With Brass Stand.....	3.00
	Attachment plugs, cord, shade and socket are extra.	



No. 8689.



No. 21963.

Adjustable Portable and Bracket.

Is furnished with a key switch at the base, and has an adjustable attachment at the top so that the socket may be moved from side to side.

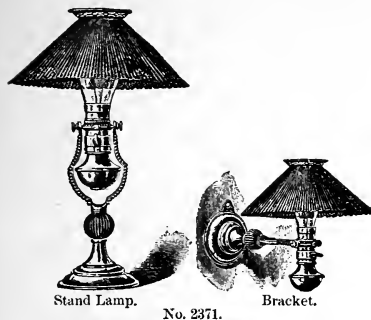
<i>Si</i>	21963 Complete, as shown in cut.....	10.00
-----------	--------------------------------------	-------

Fixtures.—(Continued.)

Combined Portable and Bracket.

This is an ornamental and convenient desk lamp. It is furnished complete with six feet of cotton covered lamp cord, a special Bryant attachment plug, a socket for a T. H. or Westinghouse base lamp, and a paper or celluloid shade. The Portable is of polished brass and, including the lamp, stands about 13 inches high.

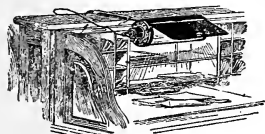
When used as a bracket it extends about 8 inches.



Stand Lamp.

No. 2371.

Bracket.



No. 2386.



No. 22044.



No. 21958.



No. 21959.

Code Word.	List No.	List Price. Each.
<i>Equatness</i>	2371 Polished Brass, complete.....	\$5.00
<i>Equation</i>	2372 Old Copper, ".....	6.00
<i>Equinox</i>	2373 Oxidized Silver ".....	7.00
<i>Equity</i>	2374 Shade only, Green.....	1.00
<i>Equivalent</i>	2375 " Red.....	1.00
<i>Equivoal</i>	2376 " Blue.....	1.00
<i>Eradicant</i>	2377 " White.....	1.00
<i>Eradicant</i>	2378 " Yellow.....	1.00
<i>Eradicating</i>	2379 " Pink.....	1.00

The Kinsman Desk Light.

This Desk Light is clamped on the desk as shown, without marring or interfering with the desk in any way; has an adjustable arm by which the cylinder can be pulled back or drawn forward as desired. The inner glass cylinder is so arranged that it will give a bright light, or by a slight touch it can be modified to suit.

<i>Errand</i>	2386 Each, nickel plated.....	6.00
<i>Side-sad</i>	22044 Each, dark Green, enamel.....	3.75

Kinsman Portable.

<i>Side-man</i>	22045 Kinsman No. 1, Portable, nickel.....	8.00
<i>Side-table</i>	22046 " No. 1, " dark Green, enamel.....	5.00
<i>Side-taking</i>	22047 Kinsman No. 2, Portable, nickel.....	7.00

Polished brass can be furnished instead of nickel if specified.

Specify style of socket when ordering.

Ornamental Electric Portables.

One light, finished in rich gilt or polished brass.

<i>Shuttle-race</i>	21958 Portable, without shade.....	6.70
<i>Shy</i>	21959 " with opal shade.....	17.00

Fixtures.—(Continued.)

Ornamental Ceiling Fixtures.

Husks.



No. 21964



No. 21965.

Code Word	List No.	List Price. Each.
<i>Sillogue</i>	21964 1 light, polished brass or rich gilt.....	\$3.50
<i>Siamese</i>	21965 1 " " " "	3.50

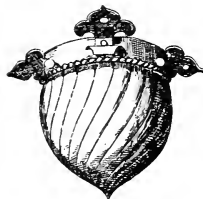


No. 21966.

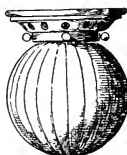


No. 21967.

<i>Sib</i>	21966 1 light, polished brass	4.50
<i>Siberian</i>	21967 1 " " "	11.25



No. 21968.



No. 21969.

Ceiling Globes and Balls.

<i>Siberite</i>	21968 1 light, Black iron, Flint Opalescent Globe,	17.00
<i>Sibilaure</i>	21969 1 " Polished brass, " " Ball,	6.00



No. 21970.



No. 21971.

<i>Sibitant</i>	21970 1 light, Polished Brass, Flint Opalescent Ball,	10.00
<i>Sibilation</i>	21971 1 " " " Inside Roughed Ball,	17.00

Fixtures—(Continued.)

Ornamental Ceiling Clusters.

With Husks.

Code Word.	List No.	List Price. Each.
<i>Sibylate</i>	21972 3 lights, Polished or Rich Gilt.....	\$13.40
<i>Sibylatory</i>	21973 3 " " "	16.00



No. 21972.

With Husks.

<i>Sibylous</i>	21974 3 light, Polished Brass or Rich Gilt.	12.00
<i>Sibyl</i>	21975 4 " " " "	13.40
<i>Sibylline</i>	21976 5 " " " "	14.70



No. 21975.

A Flint Opalescent Ball is included with Fixtures Nos. 21977, 21975 and 21976.

Without Husks.

<i>Sibylist</i>	21977 2 light, Rich Gilt or Polished Brass.	6.35
<i>Sic</i>	21978 3 " " " "	7.70
<i>Sicamore</i>	21979 4 " " " "	9.00

Shades for Fixtures Nos. 21977, 21978 and 21979 are extra.



No. 21979.

With Husks.

<i>Sicca</i>	21980 6 light, Polished Brass or Rich Gilt.	47.00
<i>Sicorte</i>	21981 8 " " " "	60.00
<i>Sicention</i>	21982 12 " " " "	74.00



No. 21980.

With Husks.

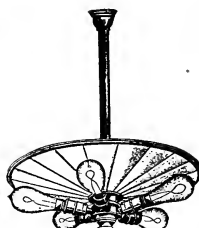
<i>Siccative</i>	21983 3 light, Polished Brass or Rich Gilt.	30.00
<i>Siccific</i>	21984 4 " " " "	35.00
<i>Siccety</i>	21985 5 " " " "	43.50
<i>Sice</i>	21986 6 " " " "	50.00



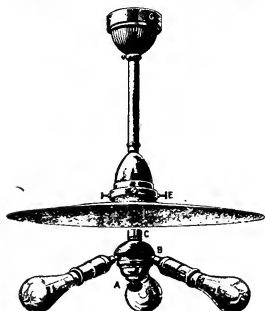
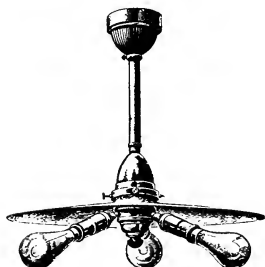
No. 21984.



Concave Style.



Convex Style.



Fixtures—(Continued.)

W. E. Clusters.

These clusters, owing to their construction, are a handy and neat device. Fig. 2 is a detachable base, so that the cluster is open at both ends. The piece shown at the top of the cluster is made for a shade holder, and will hold the shade firmly and rigidly to its proper place.

These clusters are furnished in polished brass. An additional charge of 20 cents will be made for Nickel or Baure Barf finish. The following prices are for the Cluster Balls only. Shades, pendants, canopies and crowfoots extra.

Concave Style.

Code Word.	List No.	Each.	List Price.
<i>Sickishly</i>	22001	3 light Cluster.....	\$1.12
<i>Sickishness</i>	22002	4 " ".....	1.18
<i>Sickle</i>	22003	5 " ".....	1.24
<i>Sickled</i>	22004	6 " ".....	1.28
<i>Sicklemann</i>	22005	8 " ".....	1.40
<i>Sickler</i>	22006	10 " ".....	1.80
<i>Sickleless</i>	22007	12 " ".....	2.70

Convex Style.

<i>Sicklewort</i>	22008	3 light Cluster.....	1.35
<i>Sickled</i>	22009	4 " ".....	1.40
<i>Sickliness</i>	22010	5 " ".....	1.45
<i>Sicklist</i>	22011	6 " ".....	1.50
<i>Sickly</i>	22012	8 " ".....	1.62

Dale Detachable Ceiling Cluster with Switch.

Cluster Body is detachable, so that the porcelain reflector may be put up or removed without interfering with the wiring or taking down the fixture.

A switch is placed in the bottom of the cluster body to turn off and on the lights, thus avoiding running wires from the ceiling outlet to the side wall.

Wired complete, excepting shade and sockets.

- A Switch to turn off and on lights.
- B Cluster Body.
- C Connecting Plug.
- D Receptacle for Plug C.
- E Holder for Reflector.
- F Brass Stem.
- G Canopy covering Crowfoot.

<i>Sickeringly</i>	21996	2 light	4.00
<i>Sicker</i>	21997	3 "	4.40
<i>Sickerty</i>	21998	4 "	4.80
<i>Sickerness</i>	21999	5 "	5.20
<i>Sickish</i>	22000	6 "	5.60

Fixtures.—(Continued.)

Electric Pendants.

Plain straight Pendants made of polished brass, with crowfoot and canopy, as per the following list:

Sockets, shades and shade holder extra.

K. W. bracket cut-out, which can be used instead of canopy and crowfoot will be furnished if specified.

Code Word.	List No.	List Price. Each.
<i>Sick</i>	21987 Pendant 1 foot long.....	\$.60
<i>Sicklian</i>	21988 " 2 " .....	.90
<i>Sick</i>	21989 " 3 "	1.20
<i>Sy</i>	21990 " 4 "	1.50
<i>Sickboy</i>	21991 " 5 "	1.80
<i>Sickbed</i>	21992 " 6 "	2.10

Ornamental Pendants.

Finished in black iron, and includes canopy, crowfoot and flint opalescent ball. An extra charge is made for the socket.

<i>Sickberth</i>	21993 Pendant 2 feet long.....	30.00
<i>Sickbruined</i>	21994 " 3 "	31.00
<i>Sickra</i>	21995 " 4 "	32.00

Hall Fixtures, Plain.

Polished Brass. Crowfoot and canopy furnished with fixture.

Shade, shadeholder and socket extra.

Code Word	List No.	List Price. Each.
<i>Sickness</i>	22013 2 light.....	\$5.60
<i>Sickroom</i>	22014 3 "	7.25
<i>Sicle</i>	22015 4 "	9.00

Bed Room Fixtures, Ornamental.

Polished brass, rich gilt, including canopy and crowfoot.

Sockets, shades and shadeholders extra.

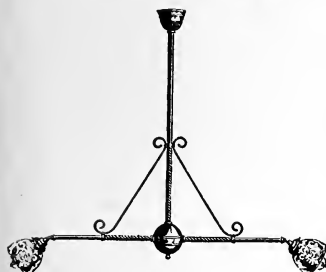
<i>Siddow</i>	22016 2 light.....	14.75
---------------	--------------------	-------



No. 21989.



No. 21994.



No. 22013.



No. 22016.

Fixtures—(Continued.)

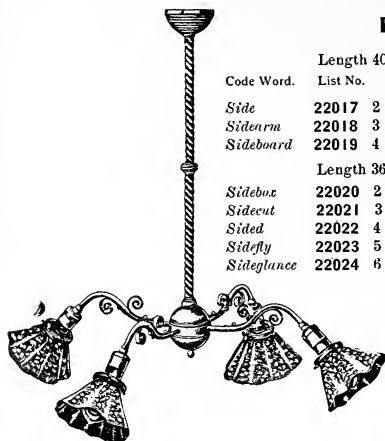
Electroliers.

Length 40 inches. Spread 24 inches.

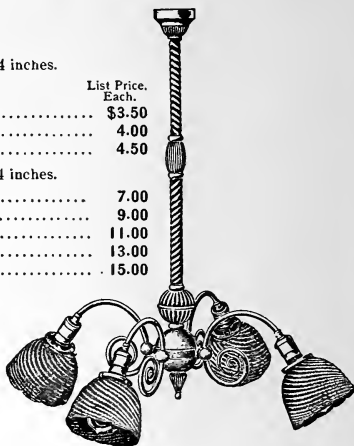
Code Word.	List No.	List Price. Each.
<i>Side</i>	22017 2 light	\$3.50
<i>Sidearm</i>	22018 3 "	4.00
<i>Sideboard</i>	22019 4 "	4.50

Length 36 inches. Spread 24 inches.

<i>Sidebox</i>	22020 2 light	7.00
<i>Sidecut</i>	22021 3 "	9.00
<i>Sided</i>	22022 4 "	11.00
<i>Sidely</i>	22023 5 "	13.00
<i>Sideglance</i>	22024 6 "	15.00



No. 22019.



No. 22022.

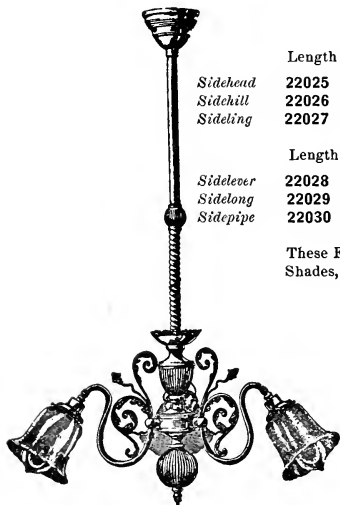
Length 40 inches. Spread 24 inches.

<i>Sidehead</i>	22025 2 light	6.75
<i>Sidehill</i>	22026 3 "	8.00
<i>Sideling</i>	22027 4 "	9.40

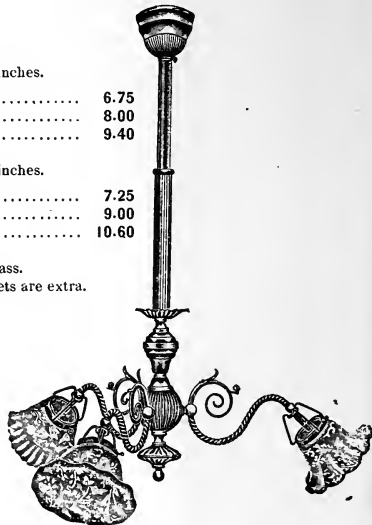
Length 36 inches. Spread 24 inches.

<i>Sideteer</i>	22028 2 light	7.25
<i>Sidelong</i>	22029 3 "	9.00
<i>Sidepipe</i>	22030 4 "	10.60

These Fixtures are polished brass.
Shades, shadeholders and sockets are extra.



No. 22026.



No. 22029.

Fixtures—(Continued.)

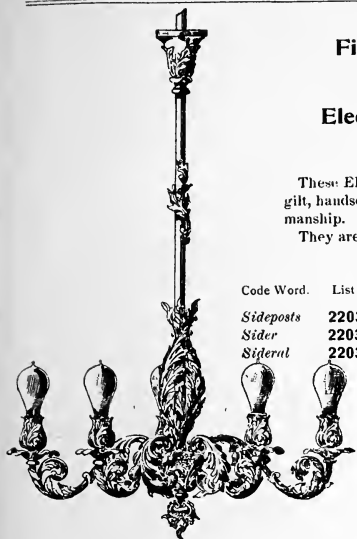
Electroliers—(Continued.)

These Electroliers are of polished brass or rich gilt, handsome in design and of the finest workmanship.

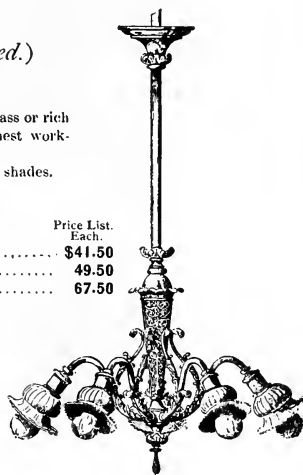
They are furnished without sockets or shades.

Electrolier, with Husks.

Code Word.	List No.	Price List. Each.
<i>Sideposts</i>	22031 3 light.....	\$41.50
<i>Sider</i>	22032 4 ".....	49.50
<i>Siderul</i>	22033 6 ".....	67.50



No. 22032.



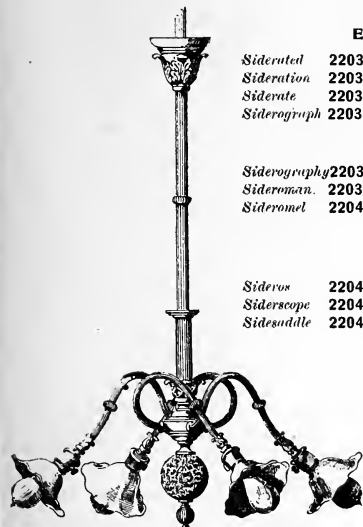
No. 22036.

Electroliers, without Husks.

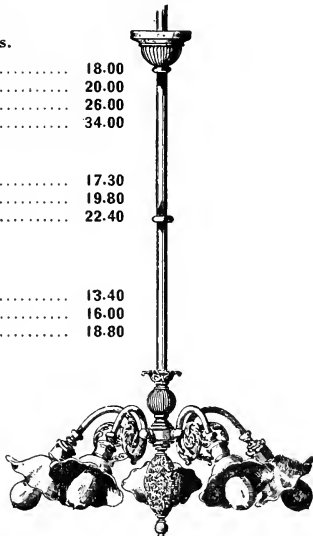
<i>Sideruted</i>	22034 2 light.....	18.00
<i>Sideration</i>	22035 3 ".....	20.00
<i>Siderute</i>	22036 4 ".....	26.00
<i>Siderograph</i>	22037 6 ".....	34.00

<i>Siderography</i>	22038 2 light.....	17.30
<i>Sideroman.</i>	22039 3 ".....	19.80
<i>Sideronnel</i>	22040 4 ".....	22.40

<i>Siderus</i>	22041 2 light.....	13.40
<i>Siderscope</i>	22042 3 ".....	16.00
<i>Sidersaddle</i>	22043 4 ".....	18.80

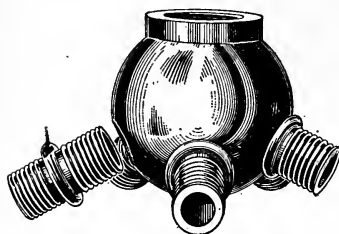


No. 22039.



No. 22043.

We are prepared to furnish other designs in Fixtures than those shown in this Catalogue.



No. 3491.

Clusters.

Cluster Balls.

Code Word.	List No.	List Price. Each.
<i>Alabaster</i>	3489 2 Light, each	.40
<i>Alacrity</i>	3490 3 " "	.50
<i>Alarm</i>	3491 4 " "	.60
<i>Alas</i>	3492 5 " "	.70
<i>Albitros</i>	3493 6 " "	.80



No. 6790.

Box Clusters.

<i>Erecting</i>	6786	Standard Box Cluster, Brass, 2 light, each	1.00
<i>Ermine</i>	6787	" " " " 3 " "	1.10
<i>Erode</i>	6788	" " " " 4 " "	1.25
<i>Eroded</i>	6789	" " " " 5 " "	1.40
<i>Eroding</i>	6790	" " " " 6 " "	1.50
<i>Erosion</i>	6791	" " " " 8 " "	1.75



No. 23092.

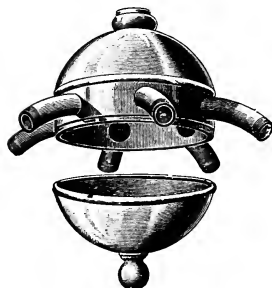
Separable Box Clusters.

<i>Silbern</i>	23088	2 Light, each	.50
<i>Silvery</i>	23089	3 " "	.60
<i>Sinu</i>	23090	4 " "	.70
<i>Sinagre</i>	23091	5 " "	.80
<i>Sinier</i>	23092	6 " "	.90
<i>Sinure</i>	23093	8 " "	1.00

Separable Ball Cluster.

Diameter, 3 inches.

Bottom ornament is removable, and may be replaced by a nipple, so that another light may be added. We furnish an extra nipple for this purpose.

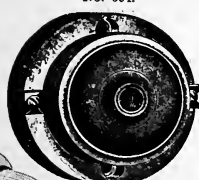


No. 617.

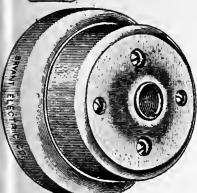
<i>Landlord</i>	613	2 Light, each	1.25
<i>Landman</i>	614	3 " "	1.35
<i>Landmark</i>	615	4 " "	1.55
<i>Landvill</i>	616	5 " "	1.85
<i>Landscape</i>	617	6 " "	2.00
<i>Landslide</i>	618	7 " "	2.35
<i>Landsmun</i>	619	8 " "	2.55
<i>Landspring</i>	620	9 " "	2.85
<i>Landward</i>	621	10 " "	3.25
<i>Lane</i>	622	11 " "	3.65
<i>Language</i>	623	12 " "	3.90
<i>Languid</i>	624	14 " "	4.75
<i>Languidly</i>	625	16 " "	6.55



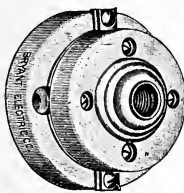
No. 604.



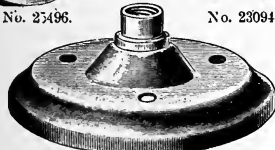
No. 873.



No. 25496.



No. 23094.



No. 2380.



No. 2382.

Cluster Fixture Complete.

Prices given are for stem up to 12 inches in length.
Prices for extra lengthening, 40 cents per foot list.

Code Word.	List No.	Price List Each.
<i>Lugger</i>	600 2 Light, each.....	\$2.50
<i>Lugging</i>	601 3 " ".....	2.60
<i>Lair</i>	602 4 " ".....	2.80
<i>Laily</i>	603 5 " ".....	3.10
<i>Lamb</i>	604 6 " ".....	3.25
<i>Lambkin</i>	605 7 " ".....	3.60
<i>Lamblike</i>	606 8 " ".....	3.80
<i>Lament</i>	607 9 " ".....	4.10
<i>Lamentable</i>	608 10 " ".....	4.50
<i>Lamentably</i>	609 11 " ".....	4.90
<i>Lamentation</i>	610 12 " ".....	5.25
<i>Lamented</i>	611 14 " ".....	6.10
<i>Lamenting</i>	612 16 " ".....	7.90

Bottom ornament on cluster is detachable. We furnish with each fixture a brass nipple to take the place of the ornament, so that another light may be added on the bottom.

Bracket Cut-Outs.

Both the E. W. and B. E. Rosettes are made in the form of Bracket Cut-Outs for fixture work, and are adapted for use with any standard bracket made from 1/2 inch brass tubing. Both styles of caps are interchangeable, and will fit any of their respective bases.

The cut shows a very neat Fixture, made of No. 873 Bracket Cut-Out, No. 9392 Canopy and No. 21910 tube. It can also be used without the Canopy.

K. W. Bracket Cut-Out.

Patented July 16, 1890, and July 1, 1890.

Type "A," with Brass Face Plates.

Code Word.	List No.	List No.	List Price.
<i>Erratic</i>	873	873 For Concealed Work.....	\$0.32
<i>Accrescent</i>	25491	1176 For Cleat Work.....	.32
<i>Accretion</i>	25492	1177 Square Base for Moulding Work.....	.32

Type "B," with Brass Thimble.

<i>Vagrancy</i>	23094	1073 For Concealed Work.....	.24
<i>Accrete.</i>	25493	1178 For Cleat Work.....	.24
<i>Accretive</i>	25494	1179 Square Base for Moulding Work.....	.24

B. E. Bracket Cut-Outs.

Patented September 13, 1887; April 30, 1889, and April 23, 1895.

<i>Accrimation</i>	25495	1130 For Cleat Work.....	.20
<i>Accronch.</i>	25496	1131 For Concealed Work.....	.20
<i>Accronchmen</i>	25497	1132 Square Base for Moulding Work.....	.20

Wall Plates or Electric Bracket Backs.

Also made with Male Thread for Direct Attachment to Socket.

<i>Erasement</i>	2382	2 inch, Female Thread, each.....	.65
<i>Erasing</i>	2383	2 " Male " ".....	.65
<i>Erasure</i>	2384	2 1/2 " Female " ".....	.75
<i>Erect</i>	2385	2 1/2 " Male " ".....	.75
<i>Erose</i>	2380	3 " Female " ".....	.50
<i>Erased</i>	2381	3 " Male " ".....	.50

Turned Brass Fittings.

Polished and Lacquered.



No. 23135.

Nipple. (Brass Tubing Size.)

Code Word.	List No.	List Price Per 100.
<i>Singular</i>	23135 $\frac{3}{8}$ x $\frac{3}{8}$	\$ 4.00



No. 23136.

Secret Nozzle.

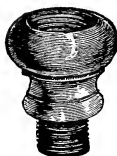
<i>Singular</i>	23136 $\frac{3}{8}$ brass to burner size	15.00
-----------------	--	-------



No. 23137.

Acorn Cap. (Iron Pipe Sizes.)

<i>Singular</i>	23137 $\frac{1}{2}$ inch	15.00
<i>Singular</i>	23138 $\frac{3}{4}$ "	15.00
<i>Singular</i>	23139 $\frac{1}{2}$ "	15.00



No. 23140.

Straight Nozzle. (Brass Tubing Sizes.)

<i>Singular</i>	23140 $\frac{3}{16}$ x $\frac{3}{16}$	6.00
<i>Singular</i>	23141 $\frac{1}{8}$ x $\frac{1}{8}$	10.00
<i>Singular</i>	23142 $\frac{3}{16}$ x $\frac{3}{16}$	10.00
<i>Singular</i>	23143 $\frac{1}{4}$ x $\frac{1}{4}$	12.50



No. 23144.

Elbow Nozzle. (Brass Tubing Sizes.)

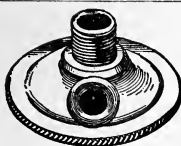
<i>Singular</i>	23144 $\frac{3}{16}$ x $\frac{3}{16}$	12.50
<i>Singular</i>	23145 $\frac{1}{8}$ x $\frac{1}{8}$	12.50
<i>Singular</i>	23146 $\frac{3}{16}$ x $\frac{3}{16}$	12.50



No. 23147.

Brass Bushing. (Iron Pipe Sizes.)

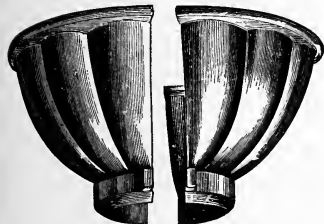
<i>Singular</i>	23147 $\frac{1}{4}$ x $\frac{1}{4}$	5.00
<i>Singular</i>	23148 $\frac{3}{8}$ x $\frac{3}{8}$	6.50
<i>Singular</i>	23149 $\frac{1}{2}$ x $\frac{1}{2}$	8.70
<i>Singular</i>	23150 $\frac{3}{4}$ x $\frac{3}{4}$	15.65
<i>Singular</i>	23151 1 x 1	24.35



No. 8882.

Kerosene Lamp Attachment.

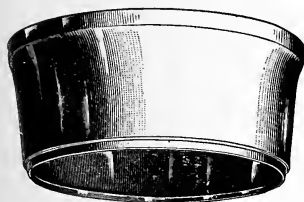
Code Word.	List No.	List Price.
<i>Erected</i>	8882 Plain, each.....	\$0.70
<i>Eminence</i>	8883 Insulated, each.....	.70



Split Canopy

Canopies.

We carry in stock a large variety of Fixture Canopies, finished in polished brass. Other finishes will be furnished when specified.



No. 23095.

Split Canopies.

Canopies of any style illustrated in this catalogue will be furnished split, at double the printed list prices, subject to regular discounts.

Extension Ring.

For Canopies 4 inches in diameter.

<i>Simblat</i>	23095	1 inch deep .....	.30
<i>Simla</i>	23096	1 1/2 " .....	.35
<i>Simle</i>	23097	2 " .....	.40

Extension rings of greater depth or for canopies larger in diameter made to order.



No. 9388.

Canopies.

<i>Nonesis</i>	9388	3/4 inch, Ring and Set Screw, each.....	.24
<i>Nerve</i>	9293	3/4 " " " " .....	.24
<i>Nerveless</i>	9389	3/4 " " " " .....	.26
<i>Nervine</i>	9391	1 " " " " .....	.26

<i>Nervous</i>	9386	5/8 inch, Ring and Set Screw, each .....	.24
<i>Nervously</i>	9107	3/4 " " " " .....	.24
<i>Nest</i>	9328	3/4 " " " " .....	.26
<i>Nestle</i>	9387	1 " " " " .....	.26

Polished and Lacquered, 50 per cent. extra.



No. 9386.



No. 9392.

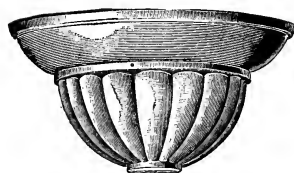
Canopies—(Continued).

Code Word.	List No.	List Price.
<i>Netting</i>	9392 $\frac{1}{8}$ inch, Ring and Set Screw, each.....	\$0.24
<i>Nettle</i>	9393 $\frac{1}{4}$ " " " " .....	.24
<i>Neural</i>	9394 $\frac{3}{8}$ " " " " .....	.26
<i>Neuralgia</i>	9395 1 " " " " .....	.26



No. 9290.

<i>Neuter</i>	9290 $\frac{1}{8}$ inch, Ring and Set Screw, each.....	.28
<i>Neutral</i>	9634 $\frac{1}{4}$ " " " " .....	.28
<i>Neutralize</i>	9683 $\frac{3}{8}$ " " " " .....	.30
<i>Neut</i>	9383 $\frac{1}{2}$ 1 " " " " .....	.30



No. 9568.

<i>Next</i>	9568 $\frac{1}{8}$ inch, Ring and Set Screw, each.....	.24
<i>Nibble</i>	9569 $\frac{3}{8}$ " " " " .....	.24
<i>Nibbler</i>	9570 $\frac{1}{2}$ " " " " .....	.26
<i>Nice</i>	9571 1 " " " " .....	.26



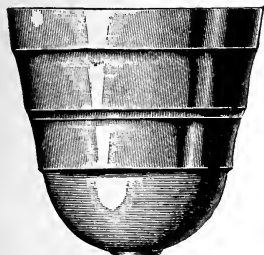
No. 9530.

<i>Nitely</i>	9530 $\frac{1}{8}$ inch, Ring and Set Screw, each.....	.26
<i>Nicety</i>	9531 $\frac{1}{4}$ " " " " .....	.26
<i>Niche</i>	9532 $\frac{3}{8}$ " " " " .....	.28
<i>Nick</i>	9533 1 " " " " .....	.28

Polished and Lacquered, 50% extra.

Canopies—(Continued)

Code Word.	List No.		List Price.
<i>Nickel</i>	9537	$\frac{3}{8}$ inch, Ring and Set Screw, each	\$0.28
<i>Nicknacks</i>	9538	$\frac{1}{2}$ " " " " .....	.28
<i>Nickname</i>	9539	$\frac{1}{4}$ " " " " .....	.30
<i>Nictate</i>	9540	1 " " " " .....	.30



No. 9537.

<i>Nictitate</i>	9542	$\frac{3}{8}$ inch, Ring and Set Screw, each .....	.30
<i>Nictation</i>	9543	$\frac{1}{2}$ " " " " .....	.30
<i>Nictitation</i>	9544	$\frac{1}{4}$ " " " " .....	.32
<i>Nidification</i>	9545	1 " " " " .....	.32



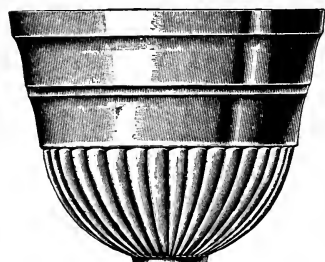
No. 9542.

<i>Niece</i>	9547	$\frac{3}{8}$ inch, Ring and Set Screw, each .....	.32
<i>Niggard</i>	9548	$\frac{1}{2}$ " " " " .....	.32
<i>Niggardly</i>	9549	$\frac{1}{4}$ " " " " .....	.34
<i>Nigh</i>	9550	1 " " " " .....	.34

Polished and Lacquered, 50% extra.



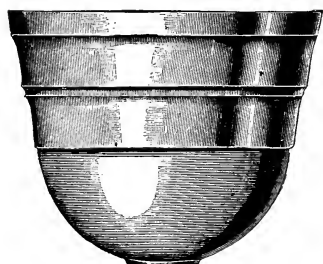
No. 9547.



No. 9557.

Canopies—(Continued).

Code Word.	List No.		List Price.
<i>Nighness</i>	9557	$\frac{3}{4}$ inch, Ring and Set Screw, each.....	\$0.42
<i>Night</i>	9558	$\frac{1}{2}$ " " " " .....	.42
<i>Nightcap</i>	9559	$\frac{1}{2}$ " " " " .....	.44
<i>Nightfall</i>	9560	1 " " " " .....	.44



No. 9552.

<i>Nighthawk</i>	9552	$\frac{3}{4}$ inch, Ring and Set Screw, each.....	.38
<i>Nightingale</i>	9553	$\frac{1}{2}$ " " " " .....	.38
<i>Nightly</i>	9554	$\frac{1}{2}$ " " " " .....	.40
<i>Nightmare</i>	9555	$\frac{1}{2}$ " " " " .....	.40

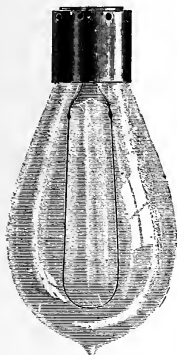
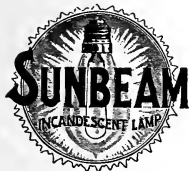


No. 9562.

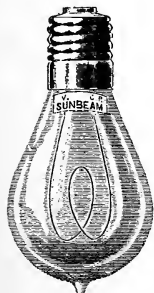
<i>Nightshade</i>	9562	$\frac{3}{4}$ inch, Ring and Set Screw, each.....	.46
<i>Nightwatch</i>	9563	$\frac{1}{2}$ " " " " .....	.46
<i>Nihilify</i>	9564	$\frac{1}{2}$ " " " " .....	.48
<i>Nimble</i>	9565	1 " " " " .....	.48

Polished and Lacquered, 50% extra.

Sunbeam Incandescent Lamps.



Hair Pin Filament.



Coiled Filament.

We are the exclusive agents for the Sunbeam Incandescent Lamp. This lamp was selected by us after very careful investigation on account of its high quality. The Sunbeam Lamp was first made in 1889, and during that whole period has had a most excellent reputation. It is a low-priced lamp if one is not blind to the question of quality. No better lamp can be purchased at the same price.

The frosted lamps have a smooth, satin finish.

The superficially colored (dipped) lamps can hardly be distinguished from the natural colored glass, and for most purposes are quite equal to them.

Particular attention is called to the 2 and 4 C. P. lamps for sign and decorative work, and which are also useful in residence lighting on account of the small amount of energy consumed. These lamps can be connected in multiple on the regular lighting circuits.

Special prices will be quoted according to quantity.

Pear Shape, Hair Pin Filament.

Furnished regularly for voltages from 45 to 90. Will be furnished for any voltage from 90 to 130 when specified.

Code Word.	List No.		Price List. Each.
<i>Sideview</i>	22048	6 c. p., 25 watts	\$ 0.45
<i>Sideoutk</i>	22049	8 " 32 "	.40
<i>Sidewings</i>	22050	10 " 37 "	.40
<i>Sidewind</i>	22051	16 " 56 " (long life)	.40
<i>Sidewind</i>	22052	16 " 50 " (high efficiency)	.40
<i>Siding</i>	22053	16 " 62 " (very long life)	.40
<i>Sidle</i>	22054	20 " 62 "	.40
<i>Siege</i>	22055	25 " 75 "	.45
<i>Sienna</i>	22056	32 " 92 "	.60
<i>Siennite</i>	22057	50 " 145 "	1.00

Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.

NOTE.—Specify the base and voltage.

Pear Shape, Coiled Filament.

Furnished for any voltage from 90 to 120.

<i>Sienna</i>	22058	8 c. p., 32 watts	.40
<i>Siennese</i>	22059	10 " 37 "	.40
<i>Sierra</i>	22060	16 " 56 " (long life)	.40
<i>Siesta</i>	22061	16 " 50 " (high efficiency)	.40
<i>Sieur</i>	22062	16 " 62 " (very long life)	.40
<i>Sieve</i>	22063	20 " 62 "	.40
<i>Sift</i>	22064	25 " 75 "	.45
<i>Sifter</i>	22065	32 " 92 "	.60

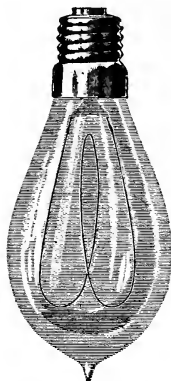
Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.

NOTE.—Specify the base and voltage.

Incandescent Lamps—(Continued.)

High Voltage Lamp.

Voltage 200 to 250.

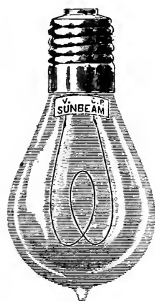


High Voltage Lamp

Code Word.	List No.	List Price. Each.
<i>Sig</i>	22066 16 c. p., 56 watts.....	\$0.50
	Furnished in clear glass, frosted and superficially colored.	
	Specify base and voltage.	

Electric Street Railway Lamp.

Has a tough filament and will stand a variation in voltage from 105 to 120. Will have a long life and excellent maintenance of candle power throughout its entire life. Electric cars will be found better lighted with this lamp than where others are used.



Electric Street Railway Lamp.

<i>Siguliant</i>	22067 16 c. p. ....	.40
	Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.	
	Specify base and voltage.	

Decorative Lamp, Coiled Filament.

This lamp is offered for use in those places where a strong light is not required. The principal use for this lamp is in sign and decorative lighting; also in residence lighting.

The bases fit the standard sockets and the lamps are to be connected in multiple. The saving in energy over the lamp ordinarily used in sign work will amount to several times the cost of the lamp. For example: the saving in energy during its life of a 4 c. p. lamp over a 16 c. p. lamp will amount to \$2.00 or more.



Decorative Lamp.

<i>Sigh</i>	22068 2 c. p., 10 watts, voltage from 50 to 60.....	.60
<i>Sighborn</i>	22069 4 " 20 " " " 50 to 120.....	.55
<i>Sigher</i>	22070 10 " 37 " " " 50 to 120.....	.50
<i>Sighingly</i>	22071 16 " 56 " " " 50 to 120.....	.50

Furnished in clear glass, frosted and superficially colored.

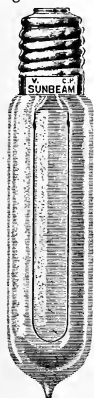
Specify base and voltage.



French Etched Lamp.



Engraved Lamp.



Candle Lamp.

Incandescent Lamps—(*Continued.*)

Fancy Lamps, French Etched.

For residences, clubs, hotels and such other places where handsome fixtures are used. Many of the shades now used with incandescent lamps will exclude from 30 to 50 per cent. of the light. These etched globes will pass all but 5 per cent of the light. The French etched lamp is artistic, surpassing in beauty anything heretofore produced.

We have ten different designs.

Add to the list price of regular lamps, 30 cents each.

Fancy Lamps, Engraved.

For residences, show windows, and other places where it is desired to have something more fancy than the plain lamp, our engraved lamps find favor.

We have ten different designs.

Add to the list price of regular lamps 15 cents each.

It is important that the style of base should be specified and the voltage given.

Candle Lamps.

Furnished in any voltage from 48 to 120.

Furnished in clear glass, frosted, opal and superficially colored.

Code Word.	List No.	List Price. Each
<i>Sight</i>	22072 10 c. p., 37 watts.....	.60
<i>Sighted</i>	22073 16 " 56 " .....	.60

Specify the base and voltage.

Incandescent Lamps—(Continued.)

Porcelain Base for T. H. Lamps.

One of the recent developments in Incandescent Lamps is a base made entirely from porcelain, as shown by the illustration. It is artistic in finish, reasonable in price, and of high insulation.

On fine fixtures it adds greatly to the general effect, and always presents a neat appearance, as it can be cleaned whenever the lamp itself is polished.

An advantage claimed for a base of this description is that no metal extends beyond the edge of the socket, and consequently there is no danger of accidental contact with the lamp base. This is of importance where lamps are used in damp places as moisture may make a contact between the outer shell of the socket and the lamp base, thus causing a slight ground on the line.

This porcelain base is specially adapted for marine work, breweries, stock yards, refrigerators, basements, mines, or any other place where considerable moisture exists or gases and acid fumes of an injurious nature prevail. Moisture and gas attack metal and cause it to corrode, and in consequence in time to deteriorate. A hard, vitreous glazed porcelain, such as these bases are made of, is much less liable to the action of the atmosphere and noxious gases and does not cause any leak of current due to the accumulation of moisture.

The high degree of insulation makes it very desirable for out of door work, for 220 volt systems and street railway work.

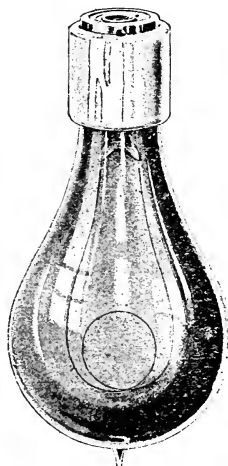
These Bases are made for T. H. Base Lamps only.

Our standard lamps are all supplied with regular metal bases, as illustrated on other pages of this catalogue.

The Porcelain Base is furnished only when specified in the order.

We do not sell the Bases separately but only on the lamp.

Prices quoted upon application for lamps of standard sizes with porcelain bases.





Edison.



Thomson-Houston.



Sawyer-Man.



Brush-Swan.



Perkins.



English-Swan.



United States.



Hawkeye.



Schaefer.

Incandescent Lamps—(Continued.)

Bases.

Lamps are furnished with bases suitable for all sockets, as shown below:

Packages.

All lamps furnished in standard packages containing the following quantities: 12, 25, 50, 100, 150, 200, 250. A full barrel will contain 250 16 c. p.; 200 25 c. p.; 175 42 c. p.

Packages will be charged at cost, or as follows: 25 lamps or less, one box, 15c.

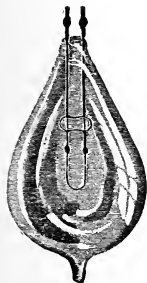
Over 25 to 50 lamps, two boxes, 30c.

More than 50 lamps put in barrels are charged at 35c. for each barrel.

Lamps in heavy pasteboard box, without the separating partitions, no charge for package; shipments in this shape must be entirely at customer's risk of breakage.

The weights, including packages, of lamps from 6 to 20 c. p., are approximately as follows: 50 lamps, 28 lbs.; 100 lamps, 42 lbs.; 200 lamps, 55 lbs.; 250 lamps, 60 lbs.

Miniature Incandescent Lamps.



The range of our Lamps is: From $\frac{1}{4}$ to 8 candle power, from 1 to 3 watts per c. p., from 2 to 60 volts, from .07 to 2.0 amperes.

They can be lit in series or in multiple, from batteries or on dynamo circuits. Following is an abridged table of c, p, voltage and current of our Lamps:

$\frac{1}{2}$ c. p.	2 volts, 1.5 amp.	1 c. p.	4 volts, .7 amp.	3 c. p.	6 volts, 1.2 amp.
3	.8	6	.4	4 c. p.	8 " 1.0 "
4	.5	8	.25	15	.4
6	.3	10	.2	20	.25
8	.2	2 c. p.	4 " 1.5 "	6 c. p.	10 " .8 "
10	.1	6	.8	25	.4
20	.07	8	.5	8 c. p.	40 " .4 "
1 c. p.	3 " 1.0 "	10	.3	60	.25
		20	.1		

Miniature Incandescent Lamps—(Continued.)

Battery Lamps.

Code Word.	List No.		List Price Each.
<i>Sightful</i>	22074	½ c. p., with platinum loop terminals	\$ 0.75
<i>Sightfulness</i>	22075	1 " " " "	.75
<i>Sightless</i>	22076	2 " " " "	.75
<i>Sightlessly</i>	22077	3 " " " "	.75
<i>Sightly</i>	22078	4 " " " "	.75
<i>Sightseeing</i>	22079	6 " " " "	.75
<i>Sightseer</i>	22080	½ " without platinum loop terminals	.70
<i>Sightshop</i>	22081	1 " " " "	.70
<i>Sightsmen</i>	22082	2 " " " "	.70
<i>Sigel</i>	22083	½ " pear lamp	.85
<i>Siggillative</i>	22084	1 " " " "	.85
<i>Sigma</i>	22085	2 " " " "	.85
<i>Sigma</i>	22086	½ " grain lamp	1.00
<i>Sigmoid</i>	22087	1 " " " "	1.00
<i>Sigmoidal</i>	22088	½ " pearl lamp	1.25

Mounting on Screw Bases, 10 cents extra.

NOTE.—All our large sizes of Lamps of every kind, when not mounted on screw bases, are provided with platinum loop terminals, to which copper wires are fused on. This effectively prevents breaking off of wires.

Special Series Lamps.

Mounted on either Edison, T.-H., or Sawyer-Man Standard Bases.

6 to 8 c. p. 20 to 30 volts.

<i>Sigmoidally</i>	22089	Accumulator Lamp, mounted	1.00
<i>Sigmoiding</i>	22090	Spherical Lamp	1.00

Specify candle power when ordering Nos. 22089 and 22090.

Mounted on Candelabra and Miniature Bases.

½ to 8 c. p.

<i>Sign</i>	22091	½ to 4 c. p., 2 to 20 volts	80
<i>Signal</i>	22092	4 c. p., 20 volts	80
<i>Signalfire</i>	22093	4 " 30 "	80
<i>Signalist</i>	22094	6 " 30 "	80
<i>Signality</i>	22095	8 " 40 "	80
<i>Signalty</i>	22096	9 " 60 "	80

Specify candle power and voltage when ordering No. 22091.

With Coiled Carbons.

<i>Signalment</i>	22097	4 to 8 c. p., 15 to 60 volts	.85
<i>Signalation</i>	22098	Kinetoscope 20 volt lamp	1.00
<i>Signatory</i>	22099	Stereopticon Lamp, 20 volts, 20 c. p.	1.25

Specify candle power and voltage when ordering Nos. 22097, 22098 and 22099.

Mounting on Screw Bases, 10 cents extra.

Miniature Incandescent Lamps—(Continued.)



Candle Lamps.

For Decorative Lighting.

Code Word.	List No.	Quantity	Unit	List Price, Each.
<i>Signator</i>	23000	2 c. p.	10 volts, without screw base	\$.70
<i>Signature</i>	23001	3	" " " "	.80
<i>Signaturist</i>	23002	4	" " " "	.70
<i>Signboard</i>	23003	5	" " " "	.70
<i>Signer</i>	23004	6	" " " "	.70
<i>Signet</i>	23005	8	" " " "	.70
<i>Signeted</i>	23006	2	" " " "	.70
<i>Signetring</i>	23007	3	" " " "	.80
<i>Signifer</i>	23008	4	" " " "	.70
<i>Significance</i>	28009	5	" " " "	.70
<i>Significance</i>	23010	6	" " " "	.70
<i>Significant</i>	28011	8	" " " "	.70

Any other voltage furnished to suit requirements.

Mounting on Screw Bases, 10 cents extra.

Candle Flame Lamps.

<i>Significantly</i>	23012	2	c. p.,	10	volts, without screw base	.....	.70
<i>Significate</i>	23013	3	"	10	"	"	.70
<i>Signification</i>	23014	4	"	20	"	"	.70
<i>Signifitive</i>	23015	5	"	30	"	"	.70
<i>Significator</i>	23016	6	"	50	"	"	.70
<i>Significavit</i>	23017	8	"	60	"	"	.70

Ellipse Lamps.

<i>Signify</i>	23018	2 c. p.,	10 volts, without screw base.....	.70
<i>Signior</i>	23019	3 “	“ “ “ .....	.70
<i>Signiorize</i>	23020	4 “	20 “ “ .....	.70
<i>Signiorship</i>	23021	5 “	30 “ “ .....	.70
<i>Signory</i>	23022	6 “	50 “ “ .....	.70
<i>Signumrual</i>	23023	8 “	60 “ double carbon lamp.....	1.50

Any other voltage furnished to meet requirements.

Mounting on Screw Bases 10 cents extra.

Bend Flame Lamps.

<i>Signor</i>	23024	2 c. p., 10 volts, without screw base	.90
<i>Signpost</i>	23025	3 " 10 " " "	.90
<i>Sike</i>	23026	4 " 20 " " "	.90
<i>Siker</i>	23027	5 " 30 " " "	.90
<i>Sikerness</i>	23028	6 " 50 " " "	.90
<i>Sikhs</i>	23029	8 " 60 " " "	.90

Straight Flame Lamps.

<i>Sile</i>	23030	2	c. p., 10 volts, without screw base	.....	.80
<i>Silence</i>	23031	3	" 10 " " " " " " " " " " " "	.....	.80
<i>Silene</i>	23032	4	" 20 " " " " " " " " " " " "	.....	.80
<i>Silent</i>	23033	5	" 30 " " " " " " " " " " " "	.....	.80
<i>Silentiary</i>	23034	6	" 50 " " " " " " " " " " " "	.....	.80
<i>Silently</i>	23035	8	" 60 " " " " " " " " " " " "	.....	.80

Other voltages furnished when specified.

Mounting on Screw Bases, as shown in cut, 10 cents extra.

Miniature Incandescent Lamps—(Continued.)



No. 23037.



No. 23038.

Prism Lamps.

Style No. 23037 is made in sizes ranging from 2 to 8 c. p., and 20 to 60 volts.

When ordering specify candle power and voltage.

Code Word.	List No.	Price List. Each.
<i>Silentness</i>	23036 Not mounted.....	\$0.90
<i>Silencia</i>	23037 Mounted.....	1.00

Style No. 23038 is broader and shorter than Style No. 23037. Can be made from ½ to 8 c. p., 2 to 60 volts. Coiled carbon taking the place of straight one for the higher pressures.

Specify candle power and voltage when ordering.

<i>Silicium</i>	23038. Not mounted.....	.90
<i>Siler</i>	23039 Mounted.....	1.00



No. 23040.



No. 23042.

Lance Tip Lamps.

Voltage same as that of Battery Lamps.

Made in sizes from ½ to 8 candle power.

Specify candle power and voltage when ordering.

<i>Silhouette</i>	23040 Not mounted.....	.70
<i>Silica</i>	23041 Mounted.....	.80

Corrugated Cylinder Lamps.

From ½ to 8 candle power. 2 to 40 volts.

Specify candle power and voltage when ordering.

<i>Silicate</i>	23042 Mounted on screw base.....	1.00
<i>Silicated</i>	23043 Not mounted.....	.90

Corrugated Cone Lamps.

From ½ to 8 candle power. The voltage the same as any other series or battery lamps as required.

Specify candle power and voltage when ordering.



No. 23044.



No. 23046.

<i>Silice</i>	23044 Mounted on screw base.....	1.00
<i>Siliceous</i>	23045 Not mounted.....	.90
<i>Silicious</i>	23046 With straight stem.....	1.00

Miniature Incandescent Lamps—(Continued.)

Corrugated Cone Lamps—(Continued.)

From $\frac{1}{2}$ to 8 candle power. Voltage the same as any other series or battery lamps as required.
Specify candle power and voltage when ordering.



No. 22049.



No. 23047.



No. 23051.

Code Word.	List No.	List Price. Each.
<i>Silicite</i>	23047 Plain platinum wire terminal.....	\$.90
<i>Silicify</i>	23048 Loop terminals.....	.90
<i>Silicite</i>	23049 With hooked stem.....	1.00

Corrugated Sphere Lamps.

$\frac{1}{2}$ to 8 candle power. 2 to 40 volts.
Specify candle power and voltage when ordering.

<i>Silicited</i>	23050 Mounted on screw base.....	1.00
<i>Silicite</i>	23051 Not mounted.....	.90



No. 23052A.



No. 23052B.



No. 23056C.



No. 23056D.



No. 23057.

<i>Silicon</i>	23052 Mounted.....	1.10
<i>Silicite</i>	23053 Not mounted.....	1.00
<i>Silicite</i>	23054 With stems.....	1.10

Globes striped red, blue and white (natural).
 $\frac{1}{2}$ to 8 candle power. Voltage up to 60 volts.
Specify candle power and voltage when ordering.

Tricolor Lamps.

Cone.

Sphere.

$\frac{1}{2}$ to 8 candle power. Voltage up to 20 volts.
Specify candle power and voltage when ordering.

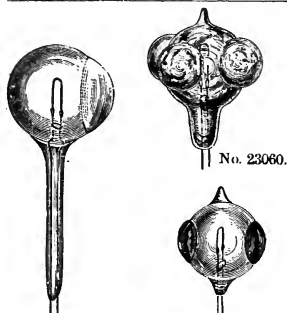
<i>Silicite</i>	23055 Mounted.....	1.10
<i>Silk</i>	23056 Not mounted.....	1.00
<i>Silkcotton</i>	23057 With stems.....	1.10

Miniature Incandescent Lamps—(Continued.)

Lens Lamps.

The lenses are fused on the globe during the process of blowing. They are able to quadruple the amount of light emitted by a lamp through concentration into a beam. They can be used in microscopes, models, and for stage effects.

$\frac{1}{2}$ to 6 candle power. 2 to 20 volts. No higher voltage is possible on account of the small size of the globe.



No. 23058.

No. 23060.



No. 23059.



No. 23062.



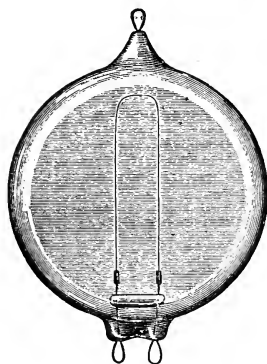
No. 23063.



No. 23064.



No. 23066.



No. 23067.

Code Word.	List No.	List Price. Each.
<i>Silk</i>	23058 Single Lens Lamp.....	\$ 1.25
<i>Silkgrass</i>	23059 Two "	1.50
<i>Silkiness</i>	23060 Three "	2.00
<i>Silkman</i>	23061 Single "	1.00

Same Lamps with coiled carbons 25 cents extra.

Mounting on Screw Bases or Glass Stems 10 cents extra.

Zone Lamps.

These Lamps are especially suitable for such kinds of illumination where movable lights of constantly varying colors are required.

The Bulbs of these Lamps are made of combination of two or three of the following kinds of glass:

Crystal, Milk, Blue, Amber,
Ruby, Green, Violet,

All colors are natural.

<i>Silkwill</i>	23062 Lamps of two kinds of glass.....	1.50
<i>Silkness</i>	23063 " three " "	2.00

These Lamps can be furnished mounted for stage dress for 40 cents extra.

Lantern Lamps.

$\frac{1}{2}$ to 8 candle power. 2 to 60 volts.

Specify candle power and voltage when ordering.

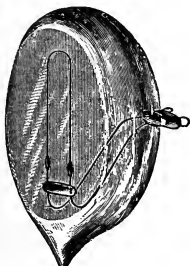
These Lamps are suitable for Yacht, Carriage, Bicycle, Miners' and Doctors, Head and other Lanterns.

<i>Silkshag</i>	23064 Sphere Lamp with side connection.	1.25
<i>Silkweed</i>	23065 " " plain .....	.90
<i>Silkworm</i>	23066 Flat " .....	.90
<i>Silky</i>	23067 " "	1.25

Miniature Incandescent Lamps—(Continued)



No. 23068.



No. 23069.

Lantern Lamps—Continued.

$\frac{1}{2}$ to 8 candle power. 2 to 60 volts.
Specify voltage and candle power.

Code Word.	List No.	Price List. Each
<i>Sill</i>	23068 Flat Lamp.....	\$.90
<i>Silly</i>	23069 " "	1.50



No. 23070.

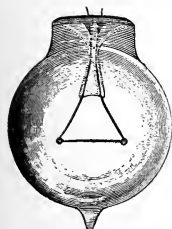
From 2 to 20 volts only.

$\frac{1}{2}$ to 8 candle power.

Specify voltage and candle when ordering.

<i>Sillock</i>	23070 Lantern Lamp.....	.75
<i>Sillon</i>	23071 Condenser Lamp .....	.85

No. 23071 Condenser Lamp is same pattern as No. 23070, but larger in size with a U shaped filament.



No. 23072.



No. 23074.

<i>Silly</i>	23072 Condenser Lamp	1.50
<i>Sillyhane</i>	23073 Railroad Lamp, single filament.....	1.50
<i>Silo</i>	23074 " " double "	2.00

Colored Lamps.

All lamps here illustrated can be furnished in the following natural colors:

- | | |
|---|--|
| 1. Milk-white; Opaque, superior to frosted glass. | 5. Violet. |
| 2. Ruby; Chloride of gold glass. | 6. Amber. |
| 3. Blue. | 7. Greenish-Yellow; Uranium, phosphorescing glass. |
| 4. Green. | |

For colors, 20 cents additional for each lamp.

Frosting, 10 cents additional per lamp.



No. 13580.

Receptacles for Candelabra Lamps.

Standard Round Candelabra Receptacle.

Code Word.	List No.	List Price. Each.
<i>Lanesboro</i>	13580	\$.30



No. 13581

Standard Flat-Base Candelabra Receptacle.

<i>Longdon</i>	1358130
----------------	-------------	-----



No. 13582.

Candelabra Shade-Holder Receptacle.

<i>Langford</i>	1358275
-----------------	-------------	-----



No. 13583.

Star Shades with Colored Edging.

<i>Lansing</i>	13583	1.00
----------------	-------------	------

Receptacles for Miniature Lamps.



No. 13585.

Round Miniature Lamp Receptacle.

Code Word. List No.

Lansingburg 13585

List Price.

Each.

\$.30



Square Miniature Lamp Receptacle.

Lions

13586

.50



Miniature Shade-Holder Receptacle.

Lapeer

13587

.75



No. 13588.

Shades for Miniature Lamps.

Laramie

13588

.30

Electric Cooking and Heating Apparatus.

General Instructions as to installation and use of Cooking and Heating Devices.

In wiring for Electric Heating and Cooking Appliances, the capacity of conductors should be the same as for electric lights or motors using the same current.

Installations must be made in accordance with the rules of the Local Board of Underwriters applying to Electric Light, Heat and Power.

Special Plug Switches should be used, and the receptacle properly fused. Ordinary attaching plugs for lamp sockets must not be used; nor any appliances connected to a lamp socket, unless expressly specified.

Flexible Conductor Cord furnished with the apparatus should be used. This cord is made expressly for the purpose; is water and fire-proof, and has been specifically approved by the Board of Underwriters.

In ordering always state voltage required. All our apparatus will work on either the direct or alternating current.

All articles are marked for the volts required; under no circumstances should the apparatus be used on circuits of different voltage.

In the event of failure of any article to operate properly, notify the agent from whom you purchased the device, explaining the nature of the failure as you understand it, but do not take the article apart.

When using the cooking utensils always prepare the

food before turning on the electricity; and if the vessel is to hold a liquid, be sure that some liquid is in it before the current is turned on, and that the supply is not exhausted while the utensil is in use.

Never empty a vessel while the current is turned on.

Articles should never be taken apart nor immersed in water, unless intended for that purpose.

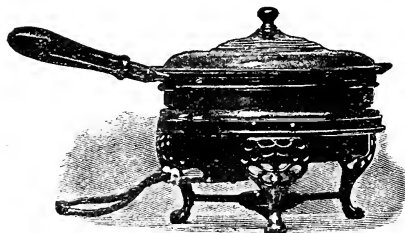
Appliances for heating water in which the heating apparatus is enclosed in a coiled copper tube, should be always kept supplied with sufficient water to cover the coil.

Always turn the current off when the apparatus is not in use. As this rule is observed, it is cheaper or dearer than coal.

Suspend the conductor cords of laundry irons by spiral springs or rubber bands over the work tables. This will keep the wires away from the work. Smoothing irons heat rapidly when on the stand with the current on. Don't pull the utensils around by the connecting cords.

Smoothing irons, portable stoves and similar apparatus require from four to ten minutes to heat to their working temperature. Devices for boiling, such as tea kettles, chafing dishes, farina boilers, glue pots, etc., require from ten to twenty minutes to boil. Large urns, from thirty to forty minutes.

Electric Chafing Dish.



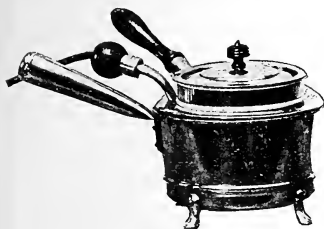
No. 23152.

The use of a Chafing Dish has become well-nigh universal, but how frequently does it happen that when the guests are gathered at the table it is discovered that the alcohol is exhausted. The Electric Chafing Dish requires no alcohol, but is always ready for use. It is furnished in a graceful pattern, in the conventional form, of spun copper, highly finished in silver or nickel. A most acceptable present for any one. Adapted to any lighting circuit. Mention voltage.

Code Word.	List No.		Amperes at 110 volts.	List Price. Each.
<i>Sinisterly</i>	23152	Two quarts, nickel plated,	4	\$15.00
<i>Sinistral</i>	23153	Two quarts, silver plated,	4	20.00

Electric Cooking and Heating Apparatus (Continued.)

Farina Boiler.



No. 23154.

This very useful device has proved to be the most convenient for a great variety of uses. The outer vessel is of heavy copper, nickel plated, the inner being made entirely of porcelain, the heating coil (also nickeled) is in a water bath surrounding the porcelain pot in which the cooking is done. It is so constructed that all parts are easily separated.

Any little article of food prepared and served in an attractive manner is always more palatable, and this adds much to its enjoyment whether one is ill or well. For the many uses to which this boiler may be applied it is ideal. It is so designed that three divisions of heat may be obtained—the maximum, to quickly heat up the vessel; then a less amount may be used to do the cooking, or a still less amount to keep the contents of the vessel warm.

Made for direct or alternating current, the usual voltages used for lighting.

Code Word.	List No.	Amperes at 110 Volts.	Price List Each.
<i>Sinktrous.</i>	23154	One quart, 3 heats, 4—2—1	12.00
<i>Sink</i>	23155	Two quarts, 3 heats, 6—3—2	13.50

“Five O’clock Tea.”

With this very handsome combination one can complete the furnishing of a tea table in keeping with its dainty silver, china and linen. The silent electric current quickly supplies the necessary heat without the use of alcohol, matches and flame, and also provides a stove (when the kettle is removed), on which to warm the wafers or crackers. It is artistic in design, highly finished in silver or nickel plate.

Made for any electric lighting circuit.

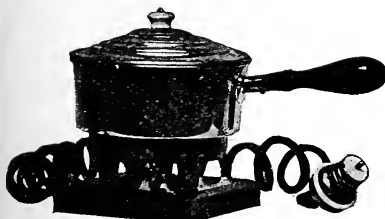


No. 23156.

		Amperes at 110 Volts.	
<i>Sinker</i>	23156	One quart, nickel plated, 4	15.00
<i>Sinkhole</i>	23157	“ “ silver “ 4	20.00

Electric Stew Pan.

This is a universal utensil, very attractive in appearance, and one of the most salable of electric heating devices. The heater consists of a 4½ inch disc, to which is fitted an (removable) Aluminum Stew Pan, with capacity of ¾ of a quart. Just the thing to use in light-housekeeping, exactly what is wanted in a physician’s office, drug store, hospital, the nursery, or where a little food is to be cooked, a hot drink made, or hot water used. Quick, clean and inexpensive. Connects to any lamp socket. Packed complete with cord and plug.



No. 23158.

		Amperes at 110 Volts.	
<i>Sinless</i>	23158	Heater and Aluminum Stew Pan, 2	5.00

Electric Cooking and Heating Apparatus (Continued.)

Electric Curling Iron Heaters.



No. 23159.

This simple device has become a necessity in many homes, apartment houses, hotels, steamers, etc., where the incandescent lamp has displaced gas or lamps. It may be attached to any lamp socket, heats quickly, uses less current than a 16 c. p. lamp, and renders unnecessary candles or other more or less dangerous heating devices in the dressing room. The use of an always clean iron is of no little importance when just finishing the toilet. They are quite ornamental. The current is automatically cut off when the iron is removed. Made for direct or alternating current—32, 100 or 110 volts. Mention whether for Edison, Westinghouse or T. H. Sockets. One in a package, complete, ready for use.

Code Word.	List No.	Amperes of 110 Volts.	List Price. Each.
<i>Singer</i>	23159	Automatic, $\frac{1}{16}$	\$3.00

Special Electric Heating Devices to order.

Electric Heating Pad.

The perfection of this device is a very important step in electrical development. By its use heat may be applied in an ideal way to the body. In form it is similar to that of a piece of thick, soft felt. It is light (weighing but a few ounces), clean, safe, and free from all objectionable features of hot water bottles, poultices or other hot applications, and far more effective. It is always ready for use, wherever electric lights are used, costs very little to operate, is so constructed that it will last for many years, and the first cost is moderate. Its great value in the hospital and cases where hot applications are necessary to sustain life is evident. It is extremely useful as a foot warmer for invalids or elderly people, and proves to be a household necessity wherever used. Operates on any incandescent lighting circuit. State voltage and kind of lamp socket when ordering.

One-half amperes at 110 volts.

<i>Singlogue</i>	23160	12 x 15 inches, complete, with cord and plug	5.00
------------------	-------	---	------

Electric Cooking and Heating Apparatus —(Continued.)



No. 23162.

Portable Stove.

This Electric Stove is 4½ inches in diameter, is mounted on enameled slat base, has five feet of flexible cord, with plug connection for lamp socket. The stove is "hot" in about two minutes from the time current is turned on. It is just the thing for warming milk, boiling an egg, quickly making a hot drink of any kind, and for a physician's office.

Code Word.	List No.	List Price Each.
<i>Sinter</i>	23162 Complete, 4 in. diam., ready for use.....	\$4.00
<i>Sintoe</i>	23163 " 7 in. " " "	7.00

The current required is 2 amperes at 110 volts. Made for 50, 100, 110 volts direct or alternating current.

Immersion Coil Heater.



No. 23171.

This useful form of heater has many applications. It may be used for heating liquids contained in almost any kind of vessel, and has the advantage over any other form of liquid heater of communicating all the heat generated to the liquid. While shown coiled in cylindrical form, they can be furnished in flat coils or to conform to the shape of vessels in which they are to be used. These heaters are also made for three divisions of heat, controlled with a switch on the coil. The amounts are maximum, one-half and one quarter. By having this arrangement the highest economy is obtained in operation. The maximum being used to quickly heat up, and the minimum to maintain the temperature.

The coils consist of copper tubes, and are furnished either plain or nicked. They are made for 52 or 110 volts, alternating or direct current, of such capacity as desired.

		Price 1 heat.	If with 3 heats.
<i>Sipid</i>	23171 Capacity, 100 to 440 Watts.....	\$ 6.00	\$ 7.00
<i>Sipper</i>	23172 " 440 " 660 "	7.50	8.50
<i>Sipper</i>	23173 " 700 " 880 "	8.50	9.50
<i>Sippling</i>	23174 " 900 " 1100 "	10.00	11.00

State voltage when ordering

Electric Cooking and Heating Apparatus (Continued.)

Electric Glue Pot.



No. 23164.

No fire, no smoke, no dirt, no gases, no danger.

It is made entirely of burnished copper, and will last indefinitely. The water bath contains a relatively small amount of water, which is automatically replenished from a reservoir, heated by coil heater, arranged to give three divisions of heat. The maximum is used to quickly heat the glue, and the minimum is usually sufficient to maintain the glue at the proper consistency. Absolutely no fire risk as with pots heated by gas or gasoline. This advantage alone is enough to justify a change from the old to the new. Pots are made for 52, 100 or 110 volt circuits, either direct or alternating.

		Amperes at 110 volts.				
		Max.	Med.	Min.		
<i>Sinuate</i>	23164 1 pint	3	1.5	$\frac{1}{2}$		13.00
<i>Sinuation</i>	23165 1 quart	4	2.	1		14.00
<i>Sinuosa</i>	23166 2 quarts	6	3	1 $\frac{1}{2}$		16.00
<i>Sinuosa</i>	23167 1 gallon	10	5.	2 $\frac{1}{2}$		18.00

Other sizes to order. State voltage when ordering.

- In addition to the special glue pot shown in cut, we also furnish them without the reservoir. The entire pot is of heavy copper, with coiled copper heater, being in every way as substantial and durable as is possible to construct such a device. With this pot it requires from 16 to 20 minutes to have the glue ready for use, starting with everything cold. Much less time is required for the special type. In no other particular are they superior, while the price is less. In all glue pots the minimum current is sufficient to maintain the glue in proper condition for work.

		Amperes at 110 volts.				
		Max.	Med.	Min.		
<i>Sip</i>	23168 1 pint	4	2.	1		10.00
<i>Sipe</i>	23169 1 quart	6	3.	1 $\frac{1}{2}$		11.00
<i>Siphon</i>	23170 2 quarts	8	4.	2		12.50

Electric Cooking and Heating Apparatus (Continued.)

Electric Smoothing Irons.

Unlike all others, except in form, are always clean, polished, and permit of continuous use. No time is lost in changing, cleaning, or useless rubbing with a cold iron, for they produce a "live heat" which is continuous throughout the period of use. A greater amount of work can be done by an operator in a given time with more ease and comfort than is possible with any other iron. The ordinary iron when first taken from the stove is frequently scorching hot, and gradually cools until repeated rubbing is necessary, where one stroke would suffice if the iron was "just right." Electric irons remain "just right," and no hot coal or gas stoves are required. These irons have proven of great value in sewing rooms, laundries and manufacturing establishments, and are deemed indispensable by those who have them.

We call particular attention to the Small Seaming Iron, No. 23175, for apartment house use, as it is specially suitable for laces, handkerchiefs and all similar light goods. Can be attached to any lamp socket.

Each iron is supplied with a suitable stand on a slate base; also five feet of duplex conductor. For additional length add 15 cents per foot to cost of iron. Special forms for factory use, 50, 100 or 110 volts as required.



No. 23177.

Code Word.	List No.	Ampers at 110 Volts.	List Price. Each.
<i>Sir</i>	23175 4½ lbs., Small Seaming,	2 Amp	\$5.00
<i>Sire</i>	23176 6½ " Light Domestic,	4 "	7.00
<i>Siren</i>	23177 7½ " Domestic,	5 "	7.50
<i>Sirene</i>	23178 9 " Heavy Laundry, 5 or 6 "	6 "	8.00



No. 23179.

Polishing Irons.

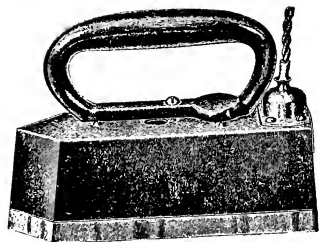
Regular Standard Sizes.

These irons have the regular polisher bottom and are usually installed where the electric sad iron is adopted. Made in one weight, about four pounds.

	Volts.	Amp. Consumpt.	Fuse required.
<i>Sirenical</i>	50	3, 4, 4½, 5,	5 amp.
<i>Sirenize</i>	110	1½, 2, 2½,	3 "
	23179	50 Volts	6.00
	23180	110 "	6.00

Electric Cooking and Heating Apparatus (Continued.)

Goose Irons.



No. 23181.

These are essentially an industrial appliance. Their adoption has been so general that they may now be considered a fixture which no manager, seeking the most economical operation of his factory, can afford to overlook. Four people will easily do the work of five who use any other form of iron. One iron to each person is all that can be used. It is always ready for use and at hand; no walking half the length of the building to a stove to exchange irons with its consequent loss of time.

	Volts.	Amp.	Consumpt.	Fuse Required.
12 and 18 lbs. {	50	7, 8, 9, 10		10 amp.
	110	3½, 4, 4½, 5		5 "
25 lbs. {	50	10, 12, 14, 16		16 "
	110	5, 6, 7, 8		8 "

Strinsis
Stritch
Strins

23181	12 lb. Goose	10.00
23182	18 lb. "	11.00
23183	25 lb. "	12.00

State voltage when ordering.



No. 23161.

Electric Foot Warmer.

This device appeals at once to many who suffer with their head bursting from heat in a vain endeavor to keep warm. Improper distribution of heat, floor draughts, the temperature difference between the floor and a higher level, all combine to produce cold feet and, as a sequence, an uncomfortable condition generally. The electric foot warmer exactly supplies the remedy by producing a little heat just where it is wanted, and a high temperature in the room is unnecessary. It is made of cast-iron, in form to constitute a most desirable foot rest, finished in black japan, is guaranteed to last for many years, and may be left in circuit indefinitely—packed complete with cord and plug ready to connect to lamp socket. The current required is the same as for the usual (16-candle power) incandescent lamp. State voltage and kind of socket when ordering. Made for all incandescent lighting circuits.

Simple

23161 Foot Warmer, size 9 x 12 ins.

Amperes at
110 volts.
26

.... 6.00

Electric Cooking and Heating Apparatus (Continued.)



No. 23188.

Disc Heaters.

The cut represents Disc Heater. The heating plate is 6½ inches in diameter and mounted on a cast iron base, neatly japanned.

An intense heat is made by turning the switch to the extreme right, when boiling, frying, etc. When switch is placed on middle contact the temperature is reduced one-half, where it may be maintained indefinitely. This feature makes the utensil valuable in the kitchen, sick room or nursery, where water may be heated or food quickly and easily prepared. This serviceable utensil is now in use in private families, hotels, restaurants, physicians' offices, match factories, furniture factories, printing offices, laboratories, smelting works, sugar refineries, etc.; etc.

Disc Heaters 8 and 9 inches in diameter will be made to order in lots of not less than one half dozen. Apply for prices.

	Volts.	Amp.	Consumption.	Fuse required.	
	50		6, 8, 10,	10 amp.	
	110		4,	4, "	
Code Word.	List No.			List Price.	
				Each.	
<i>Sirrup</i>	23188	Disc Heater, 6 in. diameter.....			\$7.50

Pancake Griddles.

Griddles for Domestic use are made with one or with three polished circular heating plates on a cast iron frame or stand, neatly japanned. Their action is very quick, being ready to bake cakes within two minutes from the time the current is turned on.

The restaurant griddle, having one polished plate 12 x 18 in., is the largest size made. Three, four or more of these griddles side by side, may be operated at once or in units of one, two or three, according to the amount of work to be done, by which you pay for the actual amount of work done, instead of heating up a large griddle to do a small amount of work.

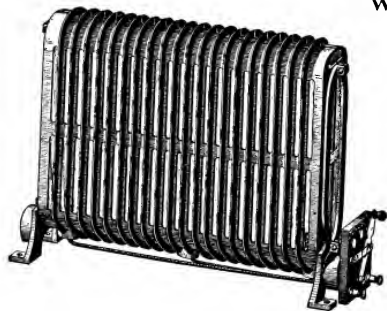


No. 23187.

	Volts.	Amp. Consumpt.	Fuse Required.	
1 Sec. {	50	4, 5, 6,	6 amp.	
	110	2, 2½, 3,	3 "	
12 x 18 {	50	30,	30 "	
	110	15,	15 "	
<i>Sirname</i> 23185	One Section, for Domestic Use (Polished Surface),			7.50
<i>Sirrah</i> 23187	Restaurant Size, 12 x 18 (Polished Surface)			15.00

Electric Air Heaters.

Western Electric Company's Heater.



No. 23189.

Unless electricity is produced at very low cost, it is not commercially practicable to heat residences or large buildings. While this is true, the electric heater still has a wide field of application in heating small offices, bath rooms, snuggeries, cold corners of rooms, street railway waiting rooms, the summer villa on cool evenings, and in mild climates a still wider range. It has the peculiar advantage of being instantly available, and the amount of heat is regulated at will. The heaters are perfectly clean, do not vitiate the atmosphere, and are portable. No definite rule can be given to determine the amount of electricity necessary for heating a given space though approximate estimates can be made by allowing from 1 to 2 watts for each cubic foot of air space to be heated. The latter amount for well constructed buildings in cold weather, or for quickly heating a bath room. The electric heater is extremely valuable in the late spring, when furnace fires are not in use, and a sudden raw spell comes on—the electric current is immediately available and takes the chill from the rooms at a minimum expense and trouble.

The Western Electric Company's Heater, made in the shape of a small steam radiator is 14½ inches long, 3½ inches thick, and stands in height 12½ inches, is finished in black enamel or Japan. It is made for two adjustments, half capacity and full capacity; the switch indicates when the current is off, when half of the heater is used and when it is all in use.

Made for 50 or 100 volts. Specify in your order the voltage, and whether direct or alternating current.

Volts.	Amp. Consumption:	Fuse required.
100	14	20 amp.

Code Word.	List No.	List Price. Each.
<i>Servente</i>	23189 Western Electric Heater.....	\$18.00

American Heaters.

The Heaters are finished in Black Japan, and are usually arranged to give three different adjustments of heat. They are made for any circuit. State whether for direct or alternating, and voltage when ordering.

Code Word.	List No.	Length.	Height.	Width.	Max. Watt Capacity.	List Price. Each.
<i>Sisalgrass</i>	23190	26 in.	x 22 in.	x 2 in.	2,000	\$25.00
<i>Sivory</i>	23191	26 "	x 22 "	x 4 "	4,000	30.00
<i>Siskin</i>	23192	26 "	x 22 "	x 7 "	6,000	45.00
<i>Siskinit</i>	23193	26 "	x 10½ "	x 2 "	1,200	15.00
<i>Kiss</i>	23194	26 "	x 10½ "	x 4 "	2,400	20.00
<i>Sisao</i>	23195	26 "	x 10½ "	x 7 "	3,500	30.00
<i>Sist</i>	23196	26 "	x 10½ "	x 10 "	4,500	40.00

Made in Gold Bronze or White Enamel for \$10.00 additional to List Prices.

Electric Air Heaters—(Continued.)

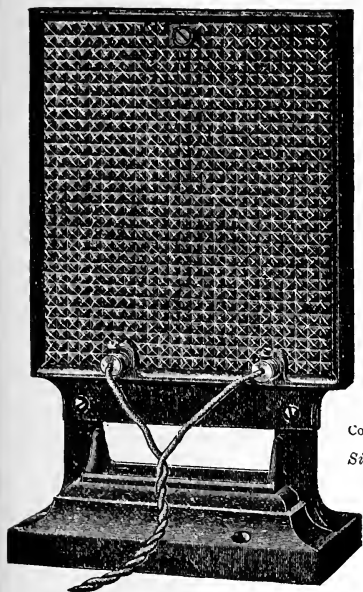
Atmospheric Heater.

Double.

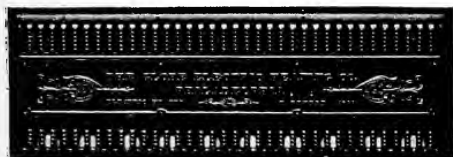
This Heater is constructed with two heating plates, each 7 x 8 inches, supported on a neat base four inches high. In setting up, it can be so arranged that one or both plates may be used at the same time, and will be found very serviceable in small rooms or for other light work.

Volts.	Amp. Consumption.	Fuse Required.
50	17	18 amp.
110	8½	9 "

Code Word.	List No.	List Price. Each.
<i>Sister</i>	23197 Atmospheric Heater	\$12.00



No. 23107.



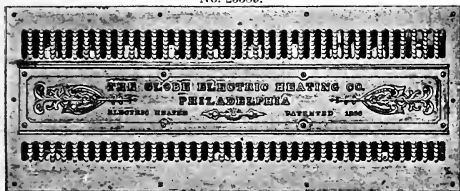
No. 25589.

Stationary Electric and Car Heater.

Each Heater consumes 1 ampere on 500 volts circuit, giving a temperature of 220 deg. Fahrenheit at Grate Opening.

Size Type B, 31 inches long, 10½ inches high, 2½ inches deep, Weight 22 pounds.

Aconita 25589 Type B, Car Heater 15.00



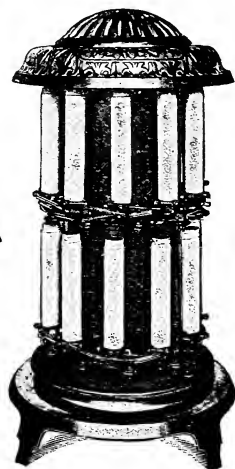
No. 25590.

Type C panel heater for side seat cars heating coils and current consumption same as type B.

Arionline 25590 Type C car heater. 15.00



No. 23199.



No. 23400.

Heater with Jacket removed
Will work on either direct or
alternating current.



No. 25588.

Portable Electric Heater.

The smaller heater contains ten heating coils, each coil consuming .5 of 1 ampere on 110 volt circuit.

The larger heater contains twenty heating coils, each coil consuming .75 of ampere on 110 volt circuit.

To determine the heating capacity of these heaters figure 1 watt of electric energy to every two cubic feet of air space.

This rule will hold good in well constructed buildings, with the outside temperature at 32 degrees Fahrenheit

Code Word	List No	G No	List Price, Each
<i>Sisterly</i>	23199	800	Height 19½ inches, diameter, 14 inches, weight, 28 pounds \$20.00
<i>Sistrum</i>	23400	601	Height, 26 inches, diameter, 14 inches, weight 35 pounds 30.00

Electric Broiler.

Size 9 x 11 broiler, weight, 27 pounds, 8 amperes, 110 volts.

Broils steaks, chops or chickens in six minutes.

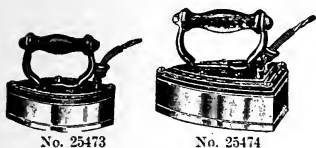
There is no odor or smoke from this Broiler, as the heat is applied from the top. The juices of the meat are retained and a rich flavor imparted, which it is impossible to obtain by any other method.

Can be used in windows or on lunch counters by simply attaching to any electric light circuit.

Cannot be appreciated without a trial.

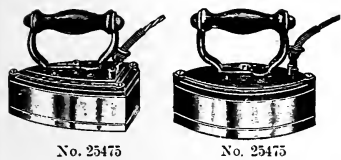
Acolythist 25588 Electrical Broiler..... 20.00

When ordering please state voltage.



No. 25473

No. 25474



No. 25475

No. 25476

Accordion

Accordianist

Six and One-Half Lb. V Shape and Oval Shape Household Irons.

Accorporate
Accust

Accisted

Electric Heating Irons.

These laundry irons, tailors' irons and curling iron heaters are noted for their excellent mechanical, as well as electrical design and they possess no parts that will easily get out of order.

The heating coils are made of the very best material obtainable, and will last for years when properly used. When ordering always state voltage.

Three Lb. Oval Shape Nursery Iron.

This iron is intended only for small and fine work, such as lace collars, fine handkerchiefs, baby dresses, etc.

It is wound for any voltage up to 125, direct or alternating, and can be attached to any ordinary lamp socket. Will get hot in less than 10 minutes.

25473 Consumes 240 watts..... \$6.00

Five Lb. V Shape Laundry Iron.

This size is best adapted for ordinary laundry work, where the iron is used constantly on the same grade of goods. It is not intended for heavy ironing.

Wound for any voltage up to 125, direct or alternating.

25474 Consumes 300 watts..... 7.00

These two sizes will meet all requirements for regular household ironing. They will give sufficient heat for the heavy work, and are not too heavy for the small work.

Wound for any voltage up to 250, direct or alternating.

25475 Consumes 600 watts..... 8.00

25476 Consumes 600 watts..... 8.00

Eight Lb. V Shape Laundry Iron.

This iron is constructed for constant heavy ironing and will give sufficient heat for the heaviest material.

Wound for any voltage up to 250, direct or alternating.

25477 Consumes 700 watts..... 10.00

Twelve and Sixteen Lb. Tailor Irons.

The electric tailors' irons can be depended on to give a steady uniform heat, and will always remain clean.

Wound for any voltage up to 250, direct or alternating.

Accountability 25478 12 lb. consumes 530 watts, 9½ inches long; 3¼ inches wide..... 15.00

Accountableness 25479 16 lb consumes 600 watts; 9½ inches long; 3 inches wide..... 16.00

Twenty Lb. Tailor Iron.

This is the size mostly used by custom tailors. It is constructed on the same principle as the 12 and 16 lb. irons.

When ordering always state whether for custom tailors, or manufacturing clothiers use.

Wound for any voltage up to 250, direct or alternating.

Accountably 25480 Consumes 700 watts, length 11 in., width 3¼ in. 18.00

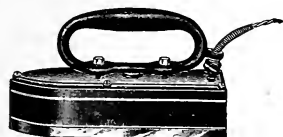
Curling Iron Heater.

The heater is finished in bronze and made in shape of a dog, with opening at the mouth to admit curling iron. It is mounted on a handsome marbleized base, always ready for use, giving out no odor or smoke.

Wound for any voltage up to 125.

Accountant 25481 Consumes 100 watts, large, with socket, lamp, and curling iron rest..... 6.00

Accountantship 25482 Small..... 4.00



No. 25450



No. 25481

Electric Soldering Iron.

The advantages of an electric soldering iron over those heated by gas, gasoline, or charcoal, are numerous. The heat is constantly applied, the copper remains tinned much longer, and the operator can work right along with one iron, thus saving considerable time. In hot weather it is a great boon to discard the old time soldering-iron stove or furnace, and use an iron that emits no heat except at the point where wanted.

The irons are made in different sizes to meet all requirements. When ordering specify what kind of work the iron is to do.

Special irons made to order. Always state voltage.

No. 2 Light.

This iron is made for very light work. It is a great time saver and a very convenient tool. Can be attached to an ordinary lamp socket. Wound for any voltage up to 125, direct or alternating.



No. 25469

Code Word.
Accomptable

List No	Weight, 1 lb. 6 oz.; length 13 in.; tip $\frac{1}{8}$ in. diameter. Consumes 135 watts.....	Price.
25469		\$6.00

No. 2 Regular.

This size will do for any work requiring a medium hot iron, such as light tinsmith's work, lead glazing, soldering commutator connections and bands on small armatures, wire joints in ceilings, and places where the marks from a flame would be objectionable, etc. It is not intended for heavy work.



No. 25470

Accomptant

List No	Weight, 1 lb. 10 oz.; length 13½ in.; tip ¼ in. diameter, either chisel shape or pointed. Consumes 135 watts.....	Price.
25470		6.00

No. 3 Regular.

The iron is recommended for all-around work. It is heavy enough to do any ordinary soldering, and is not too heavy to be used on light work.

Will be found well adapted for banding armatures of any size, electrotpe soldering, regular tinsmith's work, etc.



No. 25471

Accordable

It is also made with a straight pointed tip, 5/8 inch diameter, known as No. 3 light. If anchored to the work bench, leaving both hands of the operator free to handle the work, it can be used to great advantage on toys, lamp cases, fuse plugs, etc., and will save time.

Wound for any voltage up to 250, direct or alternating.

List No	Weight, 2 lbs. 8 oz.; length 14 in.; tip 1½ in. diameter, either chisel shape or pointed. Consumes 320 watts.....	Price.
25471		7.00

No. 4 Regular.

This size is intended only for extra heavy work, and will get very hot. It is constructed on the same principal as the other sizes.

Wound for any voltage up to 250, direct or alternating.



No. 25472

Accordancy

List No	Weight, 4 lbs. 4 oz.; length 15 in.; tip 1½ in. diameter, either chisel shape or pointed. Consumes 550 watts.....	Price.
25472		10.00

Conduit and Conduit Fittings.

Interior Conduit.

Iron Armored Conduit.

For Direct and Alternating Currents.

The Iron Armored Conduit possesses all the qualities of gas or water pipe, and can be installed with equal ease by the use of tools for cutting, threading, etc. In combination with the brass armored conduit it can be advantageously employed in construction work under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or brass armored conduit.

Thickness of armor, $\frac{1}{8}$ inch. All sizes supplied in ten foot lengths, each length having a coupling attached to one end. Tubes have straight threads at both ends, and in making joints these ends should be firmly butted in center of coupling to secure continuity of insulation.

Prices on all Iron Armored Conduit and fittings are subject to change, on thirty days' notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.



Cross Section.

Code Word.	List No.					List Price Per 100 ft.
<i>Needle</i>	6710	$\frac{1}{2}$	in. inside diam.	.84	in. outside diam.	\$10.25
<i>Needless</i>	6711	$\frac{7}{16}$	"	1.05	"	13.00
<i>Needlessly</i>	6712	$\frac{9}{16}$	"	1.315	"	18.00
<i>Needlessork</i>	6713	$1\frac{1}{4}$	"	1.66	"	28.00
<i>Neglected</i>	6714	$1\frac{3}{16}$	"	1.90	"	36.00
<i>Negotiate</i>	6715	$1\frac{7}{8}$	"	2.375	"	50.00
<i>Negro</i>	6716	$2\frac{1}{4}$	"	2.875	"	67.00
<i>Negus</i>	6717	$2\frac{7}{8}$	"	3.50	"	84.00

All elbows, nipples and special couplings, as well as tools necessary for use with Iron Armored Conduit, can be furnished by us, and prices on same may be had on application.

Interior Conduit—(Continued.)

Iron Armored Conduit—(Continued.)

No. 519 Iron Covered S Elbow.

Code Word.	List No.			List Price. Per 100.
<i>Nomadic</i>	6728	$\frac{1}{2}$ inch, inside diam., 14 inches offset		\$41.00
<i>Nomenclature</i>	6729	$\frac{7}{8}$ " " " "	17	62.00
<i>Nominal</i>	6730	$\frac{9}{16}$ " " " "	19	76.00
<i>Nominate</i>	6731	$1\frac{1}{4}$ " " " "	23	96.40
<i>Nomage</i>	6732	$1\frac{5}{8}$ " " " "	28	182.00
<i>Nonconformist</i>	6833	$\frac{1}{2}$ " " " "	16	42.70
<i>Nondescript</i>	6834	$\frac{7}{8}$ " " " "	19	64.25
<i>Nonces</i>	6835	$\frac{9}{16}$ " " " "	21	79.10
<i>Nonpareil</i>	6736	$1\frac{1}{4}$ " " " "	25	100.40
<i>Nonplus</i>	6737	$1\frac{5}{8}$ " " " "	30	187.00
<i>Nonsense</i>	6738	$\frac{1}{2}$ " " " "	18	44.40
<i>Nook</i>	6739	$\frac{7}{8}$ " " " "	21	66.50
<i>Noon</i>	6740	$\frac{9}{16}$ " " " "	23	82.20
<i>Noonday</i>	6741	$1\frac{1}{4}$ " " " "	27	104.40
<i>Normal</i>	6742	$1\frac{5}{8}$ " " " "	32	192.00

No. 6728.

No. 512 Iron Covered Corner Elbow.

<i>Northerly</i>	6743	$\frac{1}{2}$ inch, inside diam., 14 inches offset		41.00
<i>Northern</i>	6744	$\frac{7}{8}$ " " " "	17	62.00
<i>Northward</i>	6745	$\frac{9}{16}$ " " " "	19	76.00
<i>Nosegay</i>	6746	$1\frac{1}{4}$ " " " "	23	96.40
<i>Nosology</i>	6747	$1\frac{5}{8}$ " " " "	28	182.00
<i>Nostrum</i>	6748	$\frac{1}{2}$ " " " "	16	42.70
<i>Notable</i>	6749	$\frac{7}{8}$ " " " "	19	64.25
<i>Notably</i>	6750	$\frac{9}{16}$ " " " "	21	79.10
<i>Notarial</i>	6751	$1\frac{1}{4}$ " " " "	25	100.40
<i>Notary</i>	6752	$1\frac{5}{8}$ " " " "	30	187.00
<i>Notation</i>	6753	$\frac{1}{2}$ " " " "	18	44.40
<i>Note</i>	6754	$\frac{7}{8}$ " " " "	21	66.50
<i>Note</i>	6755	$\frac{9}{16}$ " " " "	23	82.20
<i>Notebook</i>	6756	$1\frac{1}{4}$ " " " "	27	104.40
<i>Noted</i>	6757	$1\frac{5}{8}$ " " " "	32	192.00

No. 6743.

No. 416 Long Insulating Elbows.

No. 416 Elbow corresponds in style with No. 116 Brass' - Armored Elbow.

INSIDE DIAMETER.	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{9}{16}$	$1\frac{1}{4}$	$1\frac{5}{8}$	OFF-SET.
Length, 10 inches.....Per 100	\$23 00	\$28 00	.....	.....	.....	$\frac{1}{2}$ inch Elbow, $6\frac{3}{8}$ inches.
" 12 " " " "	25 00	30 50	\$40 00	.....	.....	$\frac{7}{8}$ " " 7 " "
" 14 " " " "	27 00	33 00	44 00	\$58 00	.....	$\frac{9}{16}$ " " 8 $\frac{1}{2}$ " "
" 16 " " " "	29 00	35 50	48 00	63 00	\$105 00	$1\frac{1}{4}$ " " 10 $\frac{1}{2}$ " "
" 18 " " " "	31 00	38 00	52 00	68 00	114 00	$1\frac{5}{8}$ " " 12 " "

Interior Conduit—(Continued.)

Iron Armored Conduit—(Continued.)

No. 414 Short Insulating Elbows.



No. 6718.

Code Word.	List No.	List Price. Per 100.
<i>Nocturnal</i>	6718 $\frac{1}{4}$ inch, inside diameter.....	\$18.00
<i>Nod</i>	6719 $\frac{1}{8}$ " " " ".....	23.00
<i>Noddle</i>	6720 $\frac{3}{8}$ " " " ".....	30.00
<i>Noddy</i>	6721 $1\frac{1}{4}$ " " " ".....	35.00
<i>Node</i>	6722 $1\frac{1}{8}$ " " " ".....	60.00
<i>Nodule</i>	6723 $1\frac{3}{8}$ " " " ".....	165.00
<i>Noggin</i>	6724 $2\frac{1}{2}$ " " " ".....	240.00
<i>Noise</i>	6725 $2\frac{3}{8}$ " " " ".....	350.00



No. 21475.

No. 418 Insulating Outlet Elbows.

<i>Sauci</i>	21475 $\frac{1}{4}$ inch.....	22.00
<i>Saucy</i>	21476 $\frac{1}{8}$ ".....	30.00
<i>Sauerk</i>	21477 $\frac{3}{8}$ ".....	40.00



No. 21478.

No. 419 Insulating Outlet Elbows.

<i>Sauget</i>	21478 $\frac{1}{4}$ inch inside diameter.....	20.00
<i>Sauw</i>	21479 $\frac{3}{8}$ " " " ".....	27.00
<i>Sauri</i>	21480 $\frac{1}{2}$ " " " ".....	35.00



No. 21481.

No. 580 Insulating Elbow Outlets.

<i>Sausu</i>	21481 $\frac{1}{4}$ inch inside diameter.....	25.00
<i>Sauab'</i>	21482 $\frac{3}{8}$ " " " ".....	30.00
<i>Sauw</i>	21483 $\frac{1}{2}$ " " " ".....	38.00
<i>Sauwgl</i>	21484 $1\frac{1}{4}$ " " " ".....	50.00



No. 21585.

No. 581 Insulating Elbow Outlets.

<i>Sauagen</i>	21485 $\frac{1}{4}$ inch inside diameter.....	25.00
<i>Sauager</i>	21486 $\frac{3}{8}$ " " " ".....	30.00
<i>Sauagis</i>	21487 $\frac{1}{2}$ " " " ".....	38.00
<i>Suacana</i>	21488 $1\frac{1}{4}$ " " " ".....	50.00



No. 284.

Interior Conduit—(Continued.)

Iron Amored Conduit—(Continued.)

No. 284 Insulating Nipples.

List Prices.

INSIDE DIAM.	LENGTH IN INCHES							PRICE, EACH		PRICE, EACH, OF EXTRA LONG.								
	Close.	Short	Long					Close or Short.	Long.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.	
$\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	3 $\frac{1}{2}$	\$0 07	\$0 10	\$0 18	\$0 19	\$0 20	\$0 21	\$0 22	\$0 23	\$0 25	\$0 27	
$\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	09	11	20	21	22	23	25	27	29	31	
$\frac{3}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	10	15	22	24	27	29	31	33	36	40	
$\frac{1}{2}$	1 $\frac{7}{8}$	1 $\frac{7}{8}$	2	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	14	20	29	31	33	35	38	40	43	46	
$\frac{5}{8}$	1 $\frac{7}{8}$	1 $\frac{7}{8}$	2	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	17	25	36	38	40	42	45	48	51	55	
$\frac{3}{4}$	2	2	2	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	25	35	44	49	54	59	64	69	74	79	
$\frac{7}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	56	75	75	80	85	91	1 00	1 10	1 20	1 30	
$2\frac{1}{8}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	75	95	95	1 00	1 06	1 15	1 24	1 34	1 44	1 55	



No. 21489.

No. 104 Couplings.

List Price.

Code Word.	List No.	Size	Price
Savan	21489	$\frac{1}{8}$ inch inside diameter, per 100	\$7.00
Sav	21490	$\frac{1}{4}$ " " " " " "	10.00
Savem	21491	$\frac{3}{8}$ " " " " " "	13.00
Savi	21492	$\frac{1}{2}$ " " " " " "	17.00
Savingo	21493	$1\frac{1}{8}$ " " " " " "	21.00
Savingne	21494	$1\frac{1}{4}$ " " " " " "	28.00
Savo	21495	$2\frac{1}{4}$ " " " " " "	40.00
Sacori	21496	$2\frac{1}{2}$ " " " " " "	60.00

No. 104 Right and Left Couplings.

Code Word.	List No.	Size	Price
Sacori	21497	$\frac{1}{8}$ inch inside diameter, per 100	11.00
Sacoryl	21498	$\frac{1}{4}$ " " " " " "	15.00
Saul	21499	$\frac{3}{8}$ " " " " " "	20.00
Saundust	21500	$\frac{1}{2}$ " " " " " "	25.00
Saunmill	21501	$1\frac{1}{8}$ " " " " " "	30.00
Savpit	21502	$1\frac{1}{4}$ " " " " " "	50.00
Suuset	21503	$2\frac{1}{4}$ " " " " " "	85.00
Suwyer	21504	$2\frac{1}{2}$ " " " " " "	120.00

No. 582 Caps.

Code Word.	List No.	Size	Price
Sarifrige	21505	$\frac{1}{8}$ inch inside diameter, per 100	5.00
Saxon	21506	$\frac{1}{4}$ " " " " " "	8.00
Saxonism	21507	$\frac{3}{8}$ " " " " " "	11.00
Scab	21508	$\frac{1}{2}$ " " " " " "	15.00
Scabard	21509	$1\frac{1}{8}$ " " " " " "	22.00
Scabbed	21510	$1\frac{1}{4}$ " " " " " "	30.00
Scabiness	21511	$2\frac{1}{4}$ " " " " " "	50.00
Scabby	21512	$2\frac{1}{2}$ " " " " " "	80.00

No. 583 Plugs. Cast Iron.

Code Word.	List No.	Size	Price
Scabious	21513	$\frac{1}{8}$ inch, each	.04
Scabrous	21514	$\frac{1}{4}$ " " "	.05
Skewback	24058	$\frac{3}{8}$ " " "	.06
Skewbridge	24059	$\frac{1}{2}$ " " "	.10
Skewer	24060	$1\frac{1}{8}$ " " "	.13
Skewer	24061	$1\frac{1}{4}$ " " "	.20
Skiff	24082	$2\frac{1}{4}$ " " "	.35
Skidder	24063	$2\frac{1}{2}$ " " "	.50



No. 21514.

Page 324. For "Skewer," No. 24061, read
"Skewery."



Conduit and Conduit Fittings.

INTERIOR CONDUIT.

New Iron Armored Insulating Conduit.

For Direct and Alternating Currents.

The New Iron Armored Insulating Conduit consists of the well-known insulation still further improved within a wrought iron pipe, the thickness of the armor being about 1-16 inch. The outside diameters of commercial wrought iron gas pipe are maintained in the new system; a reduction in the thickness of the wall giving greater inside diameter. It is impossible to draw or force the insulating lining out of the pipe as it is placed there under high pressure, filling up the interstices, and leaving absolutely no air space between the insulation and the iron. The flexibility of the system is maintained by the use of junction boxes, fittings, etc.

The New Iron Armored Insulating Conduit possesses all the qualities of gas or water pipe, and can be installed with equal ease by the use of tools for cutting, threading, etc.

In combination with the Brass Armored Conduit it can be advantageously employed in construction work, under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or Brass Armored Conduit.

A saving in labor is effected in installing the New Iron Armored Conduit, inasmuch as it can be installed in advance of the mason work, at the most advantageous time during the construction of a building, without fear of accident to it by masons, mechanics or other workmen.



Code Word.	List No.		List Price. Per 100 ft.
<i>Site</i>	24003	$\frac{7}{8}$ in. inside diam. .675 in. outside diam....	\$ 9.25
<i>Sited</i>	24004	$\frac{1}{2}$ " " .84 " "	11.50
<i>Sitefast</i>	24005	$\frac{3}{4}$ " " 1.05 " "	15.00
<i>Sith</i>	24006	1 " " 1.315 " "	21.00
<i>Sitology</i>	24007	1 $\frac{1}{2}$ " " 1.66 " "	27.00
<i>Sitta</i>	24008	1 $\frac{3}{4}$ " " 1.90 " "	34.00
<i>Sitter</i>	24009	2 " " 2.375 " "	47.00
<i>Sitting</i>	24010	2 $\frac{1}{2}$ " " 2.875 " "	67.00

All sizes supplied in ten-foot lengths, with a coupling for each length.

Tubes have slightly tapering threads at both ends, and in making joints these ends should be firmly abutted in center of coupling to secure continuity of insulation. Wherever the tube is cut the burr should be removed by using Butt Reamer.

Prices on all New Iron Armored Conduit and Fittings are subject to change without notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.

Interior Conduit—(Continued.)

New Iron Armored Conduit—(Continued.)

No. 1519 Iron Covered S Elbow.



No. 24027.

Code Word.	List No.				List Price. Per 100.
<i>Size</i>	24027	$\frac{7}{8}$ inch, inside diam.,	14 inches offset	.....	\$ 33.00
<i>Size</i>	24028	$\frac{1}{2}$ " "	17 " "	.....	41.00
<i>Size</i>	24029	$\frac{3}{4}$ " "	19 " "	.....	62.00
<i>Size</i>	24030	1 " "	23 " "	.....	76.00
<i>Size</i>	24031	1 $\frac{1}{4}$ " "	28 " "	.....	96.00
<i>Size</i>	24032	$\frac{7}{8}$ " "	16 " "	.....	34.50
<i>Size</i>	24033	$\frac{1}{2}$ " "	19 " "	.....	42.70
<i>Size</i>	24034	$\frac{3}{4}$ " "	21 " "	.....	64.00
<i>Size</i>	24035	1 " "	25 " "	.....	79.00
<i>Size</i>	24036	1 $\frac{1}{4}$ " "	30 " "	.....	100.00
<i>Size</i>	24037	$\frac{7}{8}$ " "	18 " "	.....	35.00
<i>Size</i>	24038	$\frac{1}{2}$ " "	21 " "	.....	44.40
<i>Size</i>	24039	$\frac{3}{4}$ " "	23 " "	.....	66.00
<i>Size</i>	24040	1 " "	27 " "	.....	82.00
<i>Size</i>	24041	1 $\frac{1}{4}$ " "	32 " "	.....	104.00



No. 24042.

No. 1512 Iron Covered Corner Elbow.

<i>Sheet</i>	24042	$\frac{3}{8}$ inch inside diam.,	14 inches offset	.....	33.00
<i>Sheet</i>	24043	$\frac{1}{2}$ " "	17 " "	.....	41.00
<i>Sheet</i>	24044	$\frac{3}{4}$ " "	19 " "	.....	62.00
<i>Sheet</i>	24045	1 " "	23 " "	.....	76.00
<i>Sheet</i>	24046	1 $\frac{1}{4}$ " "	28 " "	.....	96.00
<i>Sheet</i>	24047	$\frac{3}{8}$ " "	16 " "	.....	34.50
<i>Sheet</i>	24048	$\frac{1}{2}$ " "	19 " "	.....	42.70
<i>Sheet</i>	24049	$\frac{3}{4}$ " "	21 " "	.....	64.00
<i>Sheet</i>	24050	1 " "	25 " "	.....	79.00
<i>Sheet</i>	24051	1 $\frac{1}{4}$ " "	30 " "	.....	100.00
<i>Sheet</i>	24052	$\frac{3}{8}$ " "	18 " "	.....	35.00
<i>Sheet</i>	24053	$\frac{1}{2}$ " "	21 " "	.....	44.40
<i>Sheet</i>	24054	$\frac{3}{4}$ " "	23 " "	.....	66.00
<i>Sheet</i>	24055	1 " "	27 " "	.....	82.00
<i>Sheet</i>	24056	1 $\frac{1}{4}$ " "	32 " "	.....	104.00

No. 1416 Long Insulating Elbows.

No. 1416 Elbow corresponds in style with No. 116 Brass Armored Elbow.

INSIDE DIAMETER.	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	OFFSET.
Length, 12 inches. Per 100	\$22.50	\$25.50	\$32.80	\$43.50	\$52.00	$\frac{3}{8}$ inch. Elbow, 7 inches.
" 14 " "	24.00	27.50	35.30	47.00	56.50	$\frac{1}{2}$ " " 8 $\frac{1}{2}$ "
" 16 " "	25.50	29.50	37.80	50.50	61.00	1 " " 10 $\frac{1}{2}$ "
" 18 " "	27.00	31.50	40.30	54.00	65.50	1 $\frac{1}{4}$ " " 12 "

Interior Conduit—(Continued.)

(New Iron Armored Conduit—Continued.)

No. 1414 Short Insulating Elbows.

Code Word.	List No.		List Price. Per 100.
<i>Situate</i>	24011	$\frac{7}{8}$ inch, inside diameter	\$16.00
<i>Situation</i>	24012	$\frac{1}{2}$ " " " "	18.00
<i>Situated</i>	24013	$\frac{3}{4}$ " " " "	23.00
<i>Situs</i>	24014	1 " " " "	30.00
<i>Sivan</i>	24015	$1\frac{1}{4}$ " " " "	35.00
<i>Siver</i>	24016	$1\frac{1}{2}$ " " " "	60.00
<i>Sirfold</i>	24017	2 " " " "	165.00
<i>Sirpence</i>	24018	$2\frac{1}{2}$ " " " "	240.00



No. 24011.

No. 1418 Insulating Outlet Elbows.

<i>Satiate</i>	21430	$\frac{7}{8}$ inch	21.00
<i>Satiation</i>	21431	$\frac{1}{2}$ " "	24.00
<i>Satiety</i>	21432	$\frac{3}{4}$ " "	28.00



No. 21430.

No. 1419 Insulating Outlet Elbows.

<i>Satin</i>	21433	$\frac{7}{8}$ inch inside diameter	18.00
<i>Satinet</i>	21434	$\frac{1}{2}$ " " " "	20.00
<i>Satinflower</i>	21435	$\frac{3}{4}$ " " " "	24.00



No. 21433.

No. 1580 Insulating Elbow Outlets.

<i>Satinapar</i>	21436	$\frac{7}{8}$ inch inside diameter	25.00
<i>Sattastone</i>	21437	$\frac{1}{2}$ " " " "	30.00
<i>Satinwood</i>	21438	$\frac{3}{4}$ " " " "	38.00
<i>Sating</i>	21439	1 " " " "	50.00
<i>Sirpenny</i>	24019	$1\frac{1}{4}$ " " " "	70.00
<i>Sirscore</i>	24020	$1\frac{1}{2}$ " " " "	85.00
<i>Sirshooter</i>	24021	2 " " " "	110.00
<i>Sirshly</i>	24022	$2\frac{1}{2}$ " " " "	150.00



No. 21436.

No. 1581 Insulating Elbow Outlets.

<i>Station</i>	21440	$\frac{7}{8}$ inch inside diameter	25.00
<i>Satire</i>	21441	$\frac{1}{2}$ " " " "	30.00
<i>Satiric</i>	21442	$\frac{3}{4}$ " " " "	38.00
<i>Satirical</i>	21443	1 " " " "	50.00
<i>Sixthrite</i>	24023	$1\frac{1}{4}$ " " " "	70.00
<i>Sixtieth</i>	24024	$1\frac{1}{2}$ " " " "	85.00
<i>Sizable</i>	24025	2 " " " "	110.00
<i>Sizar</i>	24026	$2\frac{1}{2}$ " " " "	150.00



No. 21540.



No. 1284.

Interior Conduit—(Continued.)

New Iron Amored Conduit—(Continued.)

No. 1284 Insulating Nipples.

List Prices.

INSIDE DIAM.	LENGTH IN INCHES.						PRICE, EACH		PRICE, EACH, OF EXTRA LONG.											
	Inches.	Close.	Short	Long.			Closeor Short.	Long.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.				
$\frac{7}{8}$	1	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	\$0 06	\$0 09	\$0 17	\$0 18	\$0 19	\$0 20	\$0 21	\$0 22	\$0 23	\$0 25				
$\frac{1}{2}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	07	10	18	19	20	21	22	23	25	27				
$\frac{3}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	09	11	20	21	22	23	25	27	29	31				
1	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	10	15	22	24	27	29	31	33	36	40				
1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	14	20	29	31	33	35	38	40	43	46				
1 $\frac{3}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	17	25	36	38	40	42	45	48	51	55				
2	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	23	35	44	49	54	59	64	69	74	79.				
2 $\frac{1}{2}$	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	56	75	75	80	85	91	1 00	1 10	1 20	1 30				



No. 21444.

No. 1104 Couplings.

Code Word.	List No.	List Price.
<i>Satisfist</i>	21444 $\frac{7}{8}$ inch inside diameter, per 100	\$6.00
<i>Satisfize</i>	21445 $\frac{1}{2}$ " " " " " "	7.00
<i>Satisfaction</i>	21446 $\frac{3}{4}$ " " " " " "	10.00
<i>Satisfactive</i>	21447 1 " " " " " "	13.00
<i>Satisfactorily</i>	21448 1 $\frac{1}{2}$ " " " " " "	17.00
<i>Satisfactory</i>	21449 1 $\frac{3}{4}$ " " " " " "	21.00
<i>Satisfiable</i>	21450 2 " " " " " "	28.00
<i>Satisfier</i>	21451 2 $\frac{1}{2}$ " " " " " "	40.00

No. 1104 Right and Left Couplings.

<i>Satisfy</i>	21452 $\frac{7}{8}$ inch inside diameter, per 100	8.00
<i>Sative</i>	21453 $\frac{1}{2}$ " " " " " "	11.00
<i>Satrap</i>	21454 $\frac{3}{4}$ " " " " " "	15.00
<i>Satrapal</i>	21455 1 " " " " " "	20.00
<i>Satrapess</i>	21456 1 $\frac{1}{2}$ " " " " " "	25.00
<i>Satrapical</i>	21457 1 $\frac{3}{4}$ " " " " " "	30.00
<i>Satrapy</i>	21458 2 " " " " " "	50.00
<i>Saturable</i>	21459 2 $\frac{1}{2}$ " " " " " "	85.00

No. 1582 Caps.

<i>Saturant</i>	21460 $\frac{7}{8}$ inch inside diameter, per 100	3.00
<i>Saturate</i>	21461 $\frac{1}{2}$ " " " " " "	5.00
<i>Saturation</i>	21462 $\frac{3}{4}$ " " " " " "	8.00
<i>Saturnity</i>	21463 1 " " " " " "	11.00
<i>Saturn</i>	21464 1 $\frac{1}{2}$ " " " " " "	15.00
<i>Saturnatia</i>	21465 1 $\frac{3}{4}$ " " " " " "	22.00
<i>Saturnalian</i>	21466 2 " " " " " "	30.00
<i>Saturnaliar</i>	21466 $\frac{1}{2}$ 2 $\frac{1}{2}$ " " " " " "	50.00

No. 1583 Plugs. Cast Iron.

<i>Saturnian</i>	21467 $\frac{7}{8}$ inch, each	.03
<i>Saturnine</i>	21468 $\frac{1}{2}$ " " "	.04
<i>Satyr</i>	21469 $\frac{3}{4}$ " " "	.05
<i>Satyric</i>	21470 1 " " "	.06
<i>Sauce</i>	21471 1 $\frac{1}{2}$ " " "	.10
<i>Saucebox</i>	21472 1 $\frac{3}{4}$ " " "	.14
<i>Saucer</i>	21473 2 " " "	.20
<i>Saucily</i>	21474 2 $\frac{1}{2}$ " " "	.35



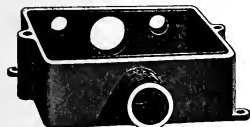
No. 21469.

Page 328. For "Saucebox," No. 21472, read
"Sauceboxy."
For "Saucer," No. 21473, read
"Saucerx."
For "Saucily," No. 21474, read
"Saucilyx."



Iron Armored Insulating Conduit—(Continued.)**Single Tube System for Direct or Alternating Currents.****Main Junction and Terminal Box.**

If installation is to be made before partition walls are erected, we place the Outlets to order, to clear the thickness of Terra Cotta wall. If orders for special Boxes do not specify "Brick" or "Lath and Plaster," we make them for Brick Work.



No. 32502.

Code Word List No List Price Each.

Sketcher **32502** Dimensions: Outside length, 6 inches, width, 3 $\frac{3}{8}$ inches, depth 3 inches..... **\$4.75**

We advise the use of Nipples, as they are fitted flush with inside of boxes before they are lined, thus keeping the insulating lining intact, which during installation, is liable to damage by screwing lengths of conduit too far into the Boxes.

Porcelain Cut-Out for No. 32502.

Sketchily **120 $\frac{1}{2}$** Two Circuit Cut-Out **1.80**

Covers for Box No. 32502.

DIMENSIONS OF BOXES OUTSIDE.	FINISH.	DESIGNS.	
		No. 32034.	No. 32036.
6 x 3 $\frac{3}{8}$	Bronze Polished.....	\$0 65	\$0 65
	Nickel ".....	55	60
	Galvanized.....	55	20
	Plain Iron.....	40	

Double Tube System for Direct Current Only.**Main Junction Boxes for Double Tube Mains and Double Tube Branches.**

They are made so that covers can be used.

Junction Boxes for Brick or Terra Cotta Work have the upper rim of holes parallel with and $\frac{1}{4}$ inch from rim of box.

Junction Boxes for Lath and Plaster Work have the upper rim of holes parallel with and $\frac{1}{4}$ inch from rim of box.

Sketchy **32002** Two Circuit, Main Line, for Brick; length, 8 $\frac{1}{2}$ ins.; width, 3 $\frac{3}{8}$ ins.; depth, 3 ins..... **6.50**

Skew **32011** Two Circuit, Main Line, for Lath and Plaster; length, 8 $\frac{1}{2}$ ins.; width, 3 $\frac{3}{8}$ ins.; depth, 3 $\frac{1}{2}$ ins. **6.75**

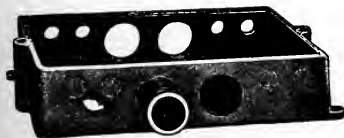
Porcelain Cut-Out for Nos. 32002 and 32011.

Sketchy **128 $\frac{1}{2}$** Two-Circuit Cut-out..... **1.90**

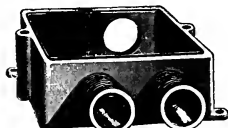
Porcelain, 1 inch thick.

Metal Covers for Junction Boxes.

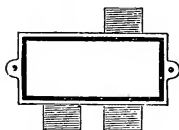
DIMENSIONS OF BOXES INSIDE.	FINISH.	DESIGNS.	
		No. 32062.	No. 32064.
8 $\frac{1}{2}$ x 3 $\frac{3}{8}$	Bronze Polished.....	\$0 85	\$0 75
	Nickel ".....	70	70.
	Galvanized.....	75	25
	Plain Iron.....	55	55



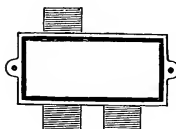
No. 32002.



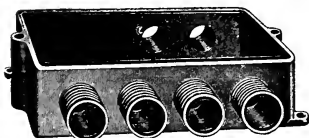
No. 32590.



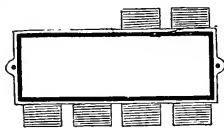
No. 32590—Right Hand.



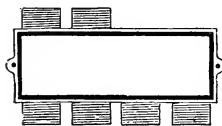
No. 32591—Left Hand.



No. 32091.



No. 32091—Right Hand.



No. 32090—Left Hand.

Iron Armored Insulating Conduit—(Continued.)

Feeder Terminal Junction Boxes for Single Tube System.

These Boxes are manufactured on the plans shown for the various circuits as described below; prices include Nipples.

Two Wire System.

Dimensions of Boxes inside—Length, $7\frac{1}{2}$ inches; width, $3\frac{1}{4}$ inches.

Code Word.	List No.		List Price. Each.
<i>Skyl</i>	32590	Right Hand, for Brick Work or Terra Cotta, depth 3 inches	\$4.25
<i>Skylbr</i>	32591	Left Hand, for Brick Work or Terra Cotta, depth 3 inches	4.25
<i>Skylor</i>	32592	Left Hand, for Lath and Plaster Work, depth $3\frac{1}{2}$ inches	4.60
<i>Skylrd</i>	32593	Right Hand, for Lath and Plaster Work, depth $3\frac{1}{2}$ inches	4.60

Unless otherwise specified, Outlets are made for 1 $\frac{1}{4}$ -inch Conduits for feeders, and 1-inch Conduits for distributors.

Porcelain Cut-Out for Above.

<i>Skylry</i>	61	Two-Wire Feeder Terminal	3.50
---------------	----	--------------------------------	------

Feeder Terminal Junction Boxes, Double Tube System.

Two Wire System.

Dimensions of Boxes inside—Length, 8 $\frac{1}{2}$ inches; width, $3\frac{1}{4}$ inches.

<i>Skylhigh</i>	32090	Left Hand, for Brick Work, depth 3 inches.	6.50
<i>Skylhrk</i>	32091	Right Hand, for Brick Work, depth 3 inches.	6.50
<i>Skylcdriver</i>	32092	Left Hand, for Lath and Plaster Work, depth $3\frac{1}{2}$ inches	6.75
<i>Skylcholder</i>	32093	Right Hand, for Lath and Plaster Work, depth $3\frac{1}{2}$ inches	6.75

Prices for Boxes include Nipples.

Unless otherwise specified, these Boxes are supplied with Nipples for Risers for 1-inch Conduit; Mains, for $\frac{3}{4}$ -inch Conduit.



No. 32964.

Iron Armored Insulating Conduit—(Continued.)

Feeder, Splicing, or "Pulling-in" Boxes for Single Tube System.

Unless otherwise specified in orders, Feeder Junction Boxes are furnished for 1½-inch Conduit.

Two Wire System.

Code Word.	List No.		List Price Each.
<i>Sliver</i>	32598	For Brick or Terra Cotta, 2 Outlet Nipples.....	4.10
<i>Sliverer</i>	32692	" " " 3 " "	4.75
<i>Sliveringly</i>	32696	" " " 2 " "	4.10
<i>Slavery</i>	32690	" " " 3 " "	4.75
<i>Slaveship</i>	32694	" " " 2 " "	4.10
<i>Slavetrade</i>	32698	" " " 3 " "	4.75

Nos. 32678, 32673, 32665, 32666, 32667, 32668 are for Lath and Plaster Work. For list prices of these add 50 cents to the above list.

Dimensions inside, for Brick or Terra Cotta Work: Length, 6½ inches; width, 6½ inches; depth, 2½ inches. Nipples are placed to allow for ½ of an inch for Plaster.

Dimensions inside, for Lath and Plaster Work: Length, 6½ inches; width, 6½ inches; depth, 3½ inches. Nipples are placed to allow for ¾ of an inch for Lath and Plaster.

Covers to fit these Boxes are listed on separate page, but are not included in these prices.

In ordering be careful to specify sizes of Conduit to be used, and if Cut-out will be required. Cut-outs for these Boxes are not carried in stock, but will be made to order at short notice, mounted on Marbleized Slate.

Intersection or Splicing Boxes.

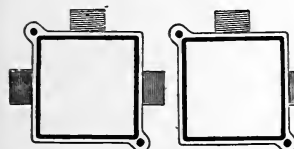
Diameter inside, 3½ inches. Depth for Brick Work 1½ inches. Depth for Lath and Plaster 1½ inches. Thickness of Walls, ½ inch. This Box is not intended to be used with a Cut-out.

Price includes Nipples.

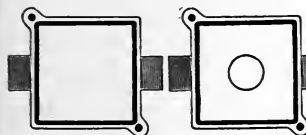
For Brick or Terra Cotta Work.

Code Word.	List No.	WITHOUT COVER.	List Price.
<i>Slavic</i>	32252	3 Outlets, 2 Side, 1 Bottom	\$1.39
<i>Slavonic</i>	32273	2 " 2 Bottom	1.18
<i>Slavish</i>	32240	2 " 2 Side	1.18
<i>Slavishly</i>	32242	2 " 2 "	1.18
<i>Slavishness</i>	32250	2 " 1 " 1 Bottom	1.18
<i>Slavism</i>	32266	3 Outlets, 2 Side, 1 Bottom	1.49
<i>Slavocracy</i>	32274	2 " 2 Bottom	1.28
<i>Slavonian</i>	32260	2 " 2 Side	1.28
<i>Slav</i>	32265	2 " 2 "	1.28
<i>Slavy</i>	32267	2 " 1 " 1 Bottom	1.28

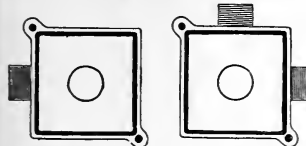
Outlets are placed ¼ inch below rim of Box for Brick or Terra Cotta and ½ inch for Lath and Plaster Work.



Nos. 32690, 32678, 32694 and 32675.



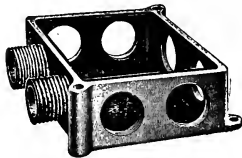
Nos. 32696, 32665, 32692 and 32666.



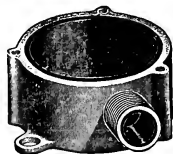
Nos. 32598, 32667, 32698 and 32668.

Nos. 32240.
32240.Nos. 32242.
32245.Nos. 32252.
32266.Nos. 32250.
32267.Nos. 32273.
32274.

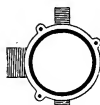
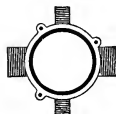
Iron Armored Insulating Conduit—(Continued.)



Nos. 32172 and 32173.

Nos. 32195.
32165.Nos. 32192.
32166.Nos. 32098.
32167.Nos. 32198.
32174.Nos. 32194.
32175.Nos. 32190.
32174.

No. 33142 and 33143.

Nos. 33132.
33138.Nos. 33134.
33140.Nos. 33136.
33141.Nos. 33133.
33139.

Splicing or "Pulling-in" Boxes.

Double Tube System.

Dimensions for Brick or Terra Cotta: length, 6½ inches; width, 6½ inches; depth, 2½ inches. For Lath and Plaster: length, 6½ inches; width, 6½ inches; depth, 3½ inches.

For Brick or Terra Cotta.

Code Word.	List No.		List Price. Each.
<i>Slayer</i>	32196	Two-wire System, without Cover	5.50
<i>Slaziness</i>	32192	" " " "	7.00
<i>Slazey</i>	32098	" " " "	5.50
<i>Slad</i>	32172	" " " "	8.50
<i>Sladding</i>	32194	" " " "	5.50
<i>Slack</i>	32198	" " " "	5.50
<i>Slackty</i>	32190	" " " "	7.00

For Lath and Plaster.

<i>Slackty</i>	32165	Two-wire System, without Cover	5.75
<i>Slackness</i>	32166	" " " "	7.25
<i>Slackstone</i>	32167	" " " "	5.75
<i>Slack</i>	32173	" " " "	8.75
<i>Slacker</i>	32174	" " " "	5.75
<i>Slackful</i>	32175	" " " "	5.75
<i>Slackly</i>	32178	" " " "	7.25

Unless otherwise specified in orders, Feeder Junction Boxes for Double Tube System are furnished with Nipples.

Cut-outs for these Boxes are made only to order.

Branch Circuit Junction Boxes.

Large Size—Complete with Nipples.

Single Tube System.

For Brick or Terra Cotta.

<i>Slackness</i>	33132	3 Outlets, 1 Main, 2 Branch	\$3.75
<i>Slacking</i>	33133	" " 1 " 2 " R. or L.	3.75
<i>Slackless</i>	33134	" " 2 " 1 "	3.85
<i>Slacklessly</i>	33136	" " 2 " 2 "	4.35
	33142	" " 1 "	2.75
<i>Slack</i>	33144	" " 2 "	3.15

For Lath and Plaster.

<i>Slackch</i>	33138	3 Outlets, 1 Main, 2 Branch	4.00
<i>Slackiness</i>	33139	" " 1 " 2 "	4.00
<i>Slackty</i>	33140	" " 2 " 1 "	4.10
<i>Slackfill</i>	33141	" " 2 " 2 "	4.60
<i>Slackehand</i>	33143	" " 1 "	3.00
<i>Slackless</i>	33145	" " 2 "	3.40

Dimensions for Brick or Terra Cotta Work, inside diameter, 4½ inches; depth, 2½ inches. For Lath and Plaster Work, inside diameter, 4½ inches; depth, 3 inches.

D. P. Porcelain Cut-Out Blocks for Above.

<i>Slack</i>	713½	Round Pattern special binding posts	2.05
<i>Slacking</i>	720½	" " plain	1.35
<i>Slackly</i>	712½	Square " " "	1.05
<i>Slackty</i>	722½	" " special	1.20

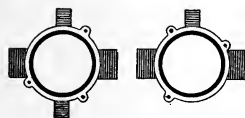
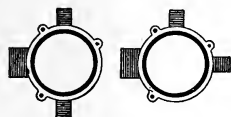
Branch Circuit Junction Boxes.

Single Tube System.

Medium Size—Complete with Nipples.



No. 32256, 32259.

Nos. 32247,
32245.Nos. 32241,
32244.Nos. 32257,
32248.Right, Nos. 32258,
32253.
Left, Nos. 32254,
32255.

Code Word.	List No.	WITHOUT COVER.	List Price Each.
<i>Slid</i>	32241	3 Outlets, 2 Main, 1 Branch.....	1.39
<i>Slidden</i>	32247	4 " 2 " 1 "	1.64
<i>Slidder</i>	32257	3 " 1 " 2 "	1.30
<i>Slide</i>	32251	3 " 1 " 2 "	1.39
<i>Slidegrout</i>	32258	3 " 1 " 2 " Right.....	1.39
<i>Slider</i>	32254	3 " 1 " 2 " Left.....	1.39
<i>Sliderest</i>	32256	1 " 1 "	1.00
<i>Slidevalve</i>	32249	2 " 2 "	1.18

For Lath and Plaster Work.

<i>Slitter</i>	32244	3 Outlets, 2 Main, 1 Branch.....	1.49
<i>Slize</i>	32245	4 " 2 " 2 "	1.74
<i>Slizer</i>	32248	3 " 1 " 2 "	1.49
<i>Slorkan</i>	32253	3 " 1 " 2 " Right.....	1.49
<i>Slorum</i>	32255	3 " 1 " 2 " Left.....	1.49
<i>Slout</i>	32259	1 " 1 "	1.10
<i>Slobber</i>	32075	2 " 2 "	1.28

Dimensions: For Brick or Terra Cotta Work, inside diameter, $3\frac{1}{4}$ inches; depth, $1\frac{1}{2}$ inches. For Lath and Plaster Work, inside diameter, $3\frac{1}{4}$ inches; depth, $1\frac{1}{8}$ inches.

The Threaded Outlets for both depth of Boxes are placed so as to allow for the embedding of Conduit $\frac{1}{8}$ of an inch under the surface of plaster for Terra Cotta or Brick work, and $\frac{3}{4}$ of an inch for Lath and Plaster.

Porcelain Cut-Outs for Above.

<i>Slobberer</i>	705 $\frac{1}{2}$	Double Pole Cut-outs for Two Branch Circuits.	.90
<i>Slobber</i>	706 $\frac{1}{2}$	Double Pole for One Branch Circuit only.....	.65

Branch Circuit Junction Boxes.

Single Tube System.

Small Size—Complete with Nipples.

For Brick or Terra Cotta Work.

WITHOUT COVERS.

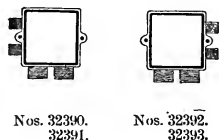
<i>Slork</i>	32134	3 Outlets, 2 Mains, 1 Branch.....	1.20
<i>Slol</i>	32136	4 " 2 " 2 "	1.45
<i>Slorkan</i>	32132	3 " 1 " 2 "	1.20
<i>Slork</i>	32133	3 " 1 " 2 " Right.....	1.20
<i>Slor</i>	32137	1 " 1 " 2 " Left.....	1.20
<i>Slorum</i>	32046	1 " 1 " .....	.85
<i>Slorony</i>	32048	1 " 2 "	1.10

Iron Armored Insulating Conduit—(Continued.)

Branch Circuit Junction Boxes—(Continued.)

Small Size—Complete with Nipples.—(Continued.)

For Lath and Plaster Work.

Nos. 32390.
32391.Nos. 32392.
32393.

Code Word.	List No.		List Price. Each.
<i>Stoichfully</i>	32140	3 Outlets, 2 Mains, 1 Branch	\$1.30
<i>Stoichfulness</i>	32141	4 " 2 " 2 "	1.50
<i>Stoichhound</i>	32138	3 " 1 " 2 "	1.30
<i>Stotted</i>	32139	3 " 1 " 2 " Right	1.30
<i>Stottery</i>	32142	3 " 1 " 2 " Left	1.30
<i>Stouch</i>	32072	1 " 1 "	.95
<i>Stouching</i>	32074	1 " 2 "	1.20

For Brick or Terra Cotta Work, inside diameter, 2½ inches; depth, 1½ inches. For Lath and Plaster Work, inside diameter 2½ inches; depth, 1½ inches.

For Diagram of Outlets, see Branch Circuit Junction Boxes preceding page.

Porcelain Cut-Outs for Above.

These Boxes being of small diameter, do not admit of using a Double Pole Cut-out for more than one Branch Circuit.

Nos. 32394.
32395.Nos. 32396.
32397.

<i>Stough</i>	710½	Double Pole for 1 Circuit, right or left or straight through	.40
<i>Stoughy</i>	707½	Double Pole for 1 Circuit, especially for right or left branches	.55

Branch Circuit Junction Boxes.

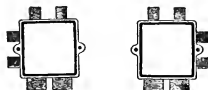
Double Tube System. Complete with Nipples.

For Brick or Terra Cotta.

Nos. 32398.
32399.

Code Word.	List No.		List Price. Each.
<i>Steightful</i>	32390	4 Outlets, 2 Main, 2 Branch	4.50
<i>Steightly</i>	32392	4 " 2 " 2 "	4.50
<i>Steightly</i>	32396	6 " 2 " 4 "	6.00
<i>Slender</i>	32400	6 " 2 " 4 "	6.00
<i>Slenderly</i>	32398	6 " 4 " 2 "	6.00
<i>Slenderness</i>	32402	6 " 2 " 4 "	6.00
<i>Slept</i>	32394	8 " 4 " 4 "	7.75

For Lath and Plaster.

Nos. 32400.
32401.Nos. 32402.
32403.

<i>Sleuth</i>	32391	4 Outlets, 2 Main, 2 Branch	4.65
<i>Sleuthhound</i>	32393	4 " 2 " 2 "	4.65
<i>Slew</i>	32397	6 " 2 " 4 "	6.15
<i>Slewed</i>	32401	6 " 2 " 4 "	6.15
<i>Sley</i>	32399	6 " 4 " 2 "	6.15
<i>Slubber</i>	32403	6 " 2 " 4 "	6.15
<i>Slice</i>	32395	8 " 4 " 4 "	7.90

Inside Dimensions for Brick and Terra Cotta Work: length, 4½ inches; width, 4½ inches; depth, 2½ inches.

Inside Dimensions for Lath and Plaster Work: length, 4½ inches; width, 4½ inches; depth, 3 inches.

Porcelain Cut-Out for Above.

<i>Slizer</i>	717½	Complete with 6 Fuse Holders	2.05
<i>Sluck</i>	716½	Fitted with Binding Screws, no Fuse Holders	.90
<i>Slucking</i>	695½	Fuse Holder, complete, extra heavy terminal, no fuse	.20
<i>Sluckness</i>	690½	Fuse Holder, complete, regular terminal, no fuse	.20



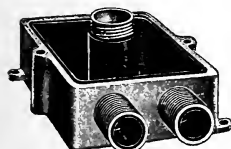
Nos. 32046 and 32072.



No. 32246 and 32073.



No. 32075 and 32079.



No. 32478.

Iron Armored Insulating Conduit—(Continued.)

Outlet Boxes.

With Fixture Support for Electric Only—Single Tube System.

Small Size.

Code Word.	List No.	List Price. Each.
<i>Sloop</i>	32046½ Outlet Box, 2½ inches diameter, 1½ inches deep, and Cover, No. 527	\$1.40
<i>Stop</i>	32072½ Outlet Box, 2½ inches diameter, and Cover, 524	1.40

For Lath and Plaster add 8c. on 2½-inch and 10c. on 3½ inch. Lath and Plaster Boxes are made 1½ inches deep.

Porcelain Cut-Outs for Above.

<i>Slope</i>	710½ Outlet or Tap Cut-out, without leads	.40
<i>Slopesness</i>	770½ Double Pole Porcelain Cut-out, without leads	.65

Outlet Boxes. Large Size.

<i>Slopewise</i>	32246 Outlet Box, 3½-inch diameter, and Cover, No. 528	1.60
<i>Sloping</i>	32073 Outlet Box, 3½-inch diameter, and Cover, No. 525	1.60

Porcelain Cut-Outs for Above.

<i>Slopingly</i>	705½ Double Pole Cut-Out for Two Branch Circuit	.90
<i>Sloppiness</i>	706½ Double Pole for One Branch Circuit only, right or left	.65

Outlet Boxes.

<i>Sloppy</i>	32075½ Outlet Box, 2½ inches diameter, with Cover	1.40
<i>Slopy</i>	32079 Outlet Box, 3½ inches diameter, with Cover	1.55

The Box is made for Brick Work. For Lath and Plaster Work add 10 cents to the above list. The ordinary form of "Bug" Cut-out can be used in these Boxes.

Outlet Boxes.

Outlet Box, Cover and Fixture Support—For Electric Only.

Double Tube System.

Dimensions of Boxes inside—Length, 3½ inches; width, 3½ inches.

<i>Slot</i>	32478 Outlet Box for Brick or Terra Cotta Work, depth 1½ inches	2.15
<i>Slate</i>	32479 Outlet Box for Brick or Terra Cotta Work, depth 2 inches	2.25
<i>Slath</i>	32480 Outlet Box for Lath and Plaster Work, depth 2 inches	2.20
<i>Slathful</i>	32481 Outlet Box for Lath and Plaster Work, depth 2½ inches	2.30

The Fixture Support is threaded to receive a ¾-inch (inside) Brass Insulating Joint. When necessary to fuse in this Box the regular Bug Cut-out can be employed. Covers are not included in above prices. Price of Cover 65 cents each.



No. 32496.

Iron Armored Insulating Conduit--(Continued.)

Outlet Boxes.

Outlet Box, Cover and Fixture Support—For Electric Only.

(Continued.)

Double Tube System.

Dimensions of Boxes inside—Length, $3\frac{1}{4}$ inches, width, $2\frac{1}{4}$ inches.

Code Word.	List No		List Price. Each.
<i>Smarten</i>	32496	Outlet Box for Brick or Terra Cotta Work, depth $1\frac{1}{4}$ inches.....	\$1.90
<i>Smartle</i>	32497	Outlet Box for Brick or Terra Cotta Work, depth 2 inches	2.00
<i>Smartly</i>	32498	Outlet Box for Lath and Plaster Work, depth 2 inches	1.95
<i>Smartness</i>	32499	Outlet Box for Lath and Plaster Work, depth $2\frac{1}{4}$ inches	2.05

Extra Outlets for these Boxes will be supplied to order at the following list price: 22 cts. each.

Covers are not included in above prices. Price of Cover, 60 cts. Unless otherwise specified in orders, Cover is supplied with Threaded Nipple for $\frac{1}{4}$ -inch (Brass) Insulating Joint or Coupling.

Porcelain Cut-Outs for Above.

No. 770 $\frac{1}{2}$, Porcelain Cut-Out, designed for a Ceiling Pendant, can be used in a side Outlet Box for Portable Fixture or Fan Motor. The Cut-Out is made in two parts. The base is supplied with heavy terminals, forming the contact pieces, into which are placed the Binding Screws. Fuse Leads are arranged on the Porcelain plug, which can be removed when fusing. Contacts are sliding, connections quickly and easily made, and the Cut-out is adapted to all $2\frac{1}{4}$ -inch boxes. The price does not include Box.

<i>Smartness</i>	770 $\frac{1}{2}$	Double Pole Porcelain Cut-out, without leads..	.65
<i>Smartsh</i>	710 $\frac{1}{2}$	Outlet or Tap Cut-out.....	.40

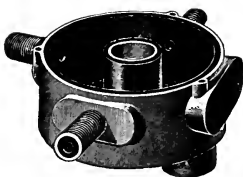
Combination Gas and Electric Branch Circuit Box and Cut-Out.

Single Tube System.

This Box is designed especially for Hotels, Office Buildings, Apartment Houses and other Fire-proof Buildings, where the Feeders are run between the Terra Cotta and floor boards, direct from the Cut-out Cabinets or Junction Boxes, to a center of distribution. This center may be located at the largest or most convenient electrolier of a suite or section of rooms, and the Box attached thereto. It will then supply the electrolier and two branches which are run on ceiling for side lights. The box, being but five inches in diameter, admits the use of an ordinary size fixture shell.

Cut-out No. 715 $\frac{1}{2}$ has Binding Posts for supply, that will carry Conductors up to No. 4 B. & S. Gauge. The Branch Terminals have been tested up to fifteen amperes.

If over ten lights are required for an electrolier, we supply Porcelain Fuse Holders No. 695 $\frac{1}{2}$, having double the carrying capacity and fit any of the Fuse Terminals. The Cut-out will fuse two Branch Circuits, which may be taken out at either side, or at right angles; at the same time fusing fixture. Unless otherwise specified in order, we supply Fuse Holder No. 690 $\frac{1}{2}$. Price includes Nipples.



Iron Box No. 30917.

Iron Armored Insulating Conduit—(Continued.)**Combination Gas and Electric Branch Circuit Box and Cut-out Single Tube System.—(Continued.)****Iron Box—Lined.**

Diameter, $5\frac{1}{4}$ inches; depth, $2\frac{1}{4}$ inches. Diameter, Gas Outlet, $1\frac{1}{8}$ inches. Diameter, Electric Outlet (inside) $1\frac{1}{8}$ inches.

Code Word.	List No.	List Price. Each.
<i>Styboots</i>	30913 1 Main, 1 Outlet	\$1.75
<i>Styly</i>	30914 1 " 2 "	2.25
<i>Styness</i>	30915 1 " 2 "	2.25
<i>Smack</i>	30916 1 " 2 "	2.25
<i>Smacking</i>	30917 1 " 3 "	2.75

Other sizes of Outlets and combinations made to order.

Porcelain Cut-Out.

Diameter, $4\frac{3}{8}$ inches. Height, with Adjustable Fuses, $1\frac{1}{2}$ inches.

<i>Smallage</i>	715‡	Complete, with 6 Fuse Holders	2.05
<i>Smallish</i>	700‡	Copper-tipped Fuses, 3 or 6 amperes	.05

Combination Gas and Electric Branch Circuit Box and Cut-Out.**Branch Junction Box.—Double Tube System.**

Diameter, $5\frac{1}{4}$ inches; depth, $2\frac{1}{4}$ inches. Diameter Gas Outlet, $1\frac{1}{8}$ inches.

<i>Smallness</i>	32486	2 Mains, 2 Outlets	2.25
<i>Smallpor</i>	32488	2 " 4 "	2.75
<i>Smallt</i>	32490	2 " 4 "	2.75
<i>Smallly</i>	32492	2 " 4 "	2.75
<i>Smallt</i>	32494	2 " 6 "	3.25

Combination Gas and Electric Outlet Box with Cut-Out.**Single Tube System.**

This Box is designed to be used for side Outlets on walls or partitions. The diameter being small, a 4-inch Fixture Shell will cover it. Cover admits of ready access to Box, and when in place it effectually closes the Outlet against moisture. Cut-out No. 718‡ is designed to fuse two Branch Circuits, is fitted with the adjustable Fuse Holders, or will be supplied with Binding Screws only, so that the ordinary copper-tipped fuse may be employed.

If it is desired to fuse the fixture at which the box is located, the cover can be omitted, the ends of conduit sealed with compound, and the work thus made tight.

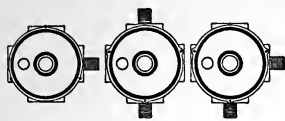
Specify in orders the size for Mains and Branches.

Iron Box and Cover.

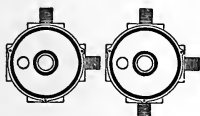
<i>Smalltine</i>	30911	As illustrated. Dimensions: Diameter, $3\frac{3}{8}$ inches depth, $1\frac{1}{8}$ inches	1.60
<i>Smallragdine</i>	30912	Plain Iron Cover, Insulated Lining	.25

Porcelain Cut-Out.

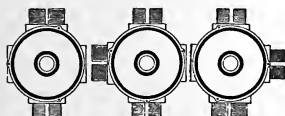
<i>Smallragdite</i>	718‡	Complete with four Adjustable Safety Fuses	1.65
<i>Smallrt</i>	719‡	Cut-Out, without Adjustable Fuses, but having Binding Screws for Copper-tip Fuses	.85



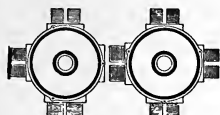
No. 30913. No. 30914. No. 30915.



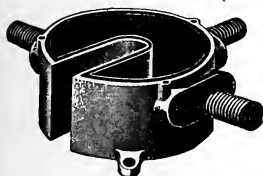
No. 30916. No. 30917.



No. 32486. No. 32488. No. 32490.



No. 32492. No. 32494.



No. 32495.

Iron Armored Insulating Conduit—(Continued.)

Combination Gas and Electric Outlet Box with Cut-Out.

—(Continued.)

Double Tube System.

Iron Box and Cover.

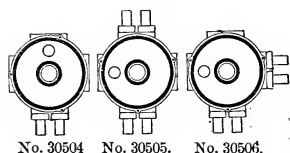
Code Word.	List No.	List Price. Each.
<i>Smasher</i>	30920 Diameter, 3 $\frac{3}{8}$ inches; depth, 1 $\frac{1}{2}$ inches. With six Nipples.....	\$2.25
<i>Smatch</i>	30912 Plain Iron Cover, Insulated Lining .....	.25

Porcelain Cut-Out.

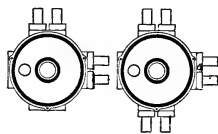
<i>Smatter</i>	718$\frac{1}{2}$ Complete, with four Adjustable Safety Fuses..	1.65
<i>Smatterer</i>	719$\frac{1}{2}$ Cut-out, without Adjustable Fuses, but having Binding Screws for Copper-tipped Fuses.....	.85

Combination Gas and Electric Ceiling Outlet and Branch Circuit Boxes.

Single Tube Iron—Double Tube Brass.



No. 30504 No. 30505. No. 30506.



No. 30507. No. 32508.

The Box is of Iron, Insulated and designed to be placed at a chandelier outlet, and fed from the floor above by a single tube of Iron Armored Conduit $\frac{3}{4}$ of an inch inside diameter or less. Owing to the position and necessity of sinking the Box into the Terra Cotta ceiling, no threaded joint can be made, but an iron sleeve one inch in height is provided, into which the Conduit is inserted. The Center or Gas Outlet will admit the use of $\frac{3}{4}$ -inch (inside diameter) gas pipe. The short Iron Nipples are threaded for $\frac{3}{8}$ -inch coupling, on to which can be screwed combination coupling for $\frac{7}{8}$ or $\frac{1}{2}$ -inch Brass Armored Conduit.

Outside Dimensions—Diameter, 5 $\frac{1}{2}$ inches; depth, 2 $\frac{1}{2}$ inches. Diameter Gas Outlet, 1 $\frac{1}{8}$ inches. Diameter Electric Outlet (inside), 1 $\frac{1}{8}$ inches.

Diameter Porcelain Cut-out, 4 $\frac{3}{8}$ inches; Height, with Adjustable Fuses, 1 $\frac{1}{2}$ inches.

<i>Smattering</i>	30504	1 Main, 1 Electroliner and 2 Branches.....	2.05
<i>Smeaz</i>	30505	1 " 1 " 4 "	2.75
<i>Smeardub</i>	30506	1 " 1 " 4 "	2.75
<i>Smeary</i>	30507	1 " 1 " 4 "	2.75
<i>Smeath</i>	30508	1 " 1 " 6 "	3.45

Combination Gas and Electric Outlet Box and Cut-Out.

Double Tube Iron—Double Tube Brass.

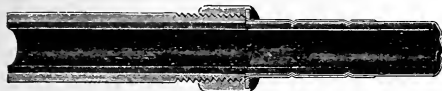
For Direct Current Only.

Iron Box and Cover.

<i>Smectile</i>	32920 With four $\frac{3}{8}$ -inch Combination Nipples and two $\frac{3}{8}$ -inch Iron Insulated Nipples without cover	2.65
	Dimensions: Diameter, 3 $\frac{3}{8}$ inch; depth, 1 $\frac{1}{2}$ inch.	
<i>Smatch</i>	30912 Plain Iron Cover, Insulated Lining.....	.25

Iron Armored Insulating Conduit—(Continued.)

Combination System.



Using Both Iron and Brass Armored Conduit.

Illustration showing the application of the Combination Coupling or "Connecting Link" between the two systems—Iron Armored Conduit and Brass Armored Conduit. The union if properly made, by the use of white lead on the iron threads and the crimping tool on the brass coupling, will be a perfect joint.

The illustration shows a Cross Section of Iron Armored Insulating Conduit and Brass Armored Conduit; the union being properly made. Both ends of insulation abut.

The demand for this system has arisen principally from its flexibility; also from the fact that the diameter of the Brass Armored Conduit is less than that of the Iron Armored. In modern fire-proof structures, the thickness of plaster ordinarily used on walls will always cover the $\frac{1}{4}$ -inch Brass Conduit, and usually the $\frac{3}{4}$ -inch, without having to channel the walls. This channeling being a considerable item in the general expense of the installation, the labor thus saved is an important consideration where the specifications do not provide for "Furring" or a sufficient thickness of plaster to cover the Iron Armored Conduit.

Combination Couplings are necessary in connecting the Brass Armored Double Tube System to the Single Tube Iron System, at Junction Boxes, Cut-out Cabinets, etc., and when the Feeders or Risers are run in separate Brass Armored Conduits on account of their size, or to avoid induction when the Alternating System is employed.



No. 205 $\frac{1}{2}$.
Combination Coupling.



No. 32640.



No. 32641.



No. 32642.

Combination Coupling.

Code Word.	List No.		List Price. Each.
<i>Snod</i>	205 $\frac{1}{2}$	$\frac{3}{4}$ -inch Iron Nipple to $\frac{3}{4}$ -inch Brass Coupling	\$0.10
<i>Snood</i>	206 $\frac{1}{2}$	$\frac{3}{4}$ -inch " " $\frac{3}{4}$ -inch "	.12
<i>Snook</i>	207 $\frac{1}{2}$	$\frac{3}{4}$ -inch " " $\frac{3}{4}$ -inch "	.14
<i>Snooze</i>	208 $\frac{1}{2}$	1-inch " " 1-inch "	.17
<i>Snore</i>	209 $\frac{1}{2}$	1 $\frac{1}{4}$ -inch " " 1 $\frac{1}{4}$ -inch "	.21
<i>Snorer</i>	210 $\frac{1}{2}$	1 $\frac{1}{2}$ -inch " " 1 $\frac{1}{2}$ -inch "	.27

Angle and Corner Insulating Boxes.

Single Tube System.

For Splicing or "Pulling-in" Conductors.

<i>Snort</i>	32640	Iron Insulated Box, with Two Nipples,.....	\$1.85
<i>Snorter</i>	32641	Iron Insulated Box, " "	1.85
<i>Snout</i>	32642	Iron Insulated Box, " "	1.85

Above prices include Plain Iron Covers and Screws fitted; also Nipples. Specify size of Nipple.

Iron Armored Insulating Conduit—(Continued.)**Angle and Corner Insulating Boxes—(Continued.)****Double Tube Iron—Double Tube Brass.**

Code Word.	List No.	List Price. Each.
<i>Snaredrop</i>	30649 Iron Insulated Box, with two Iron and two Combination Couplings fitted. Same style as No. 32642	2.45
<i>Snarefunke</i>	30650 Iron Insulated-Box, with two Iron and two Combination Couplings fitted. Same as style No. 32640	2.45
<i>Snareflock</i>	30651 Iron Insulated Box, with two Iron and two Combination Couplings fitted. Same style as No. 32641	2.45

The above prices include Iron Covers and screws fitted.

If $\frac{5}{8}$ " brass Conduit is to be used, please state so in ordering.

The above Boxes are made for Brick and Terra Cotta Work, Nipples being placed $\frac{1}{2}$ inch from Rim of Box.

Switch Box for Cutter and Other Flush Switches.**For Single Tube System.**

The Box, as illustrated, is designed for a Single Pole Flush Switch. We manufacture these Boxes for all makes of Flush Switches, either Single Pole, Double Pole and for Three or Four Wires.

Where the installation is to be made before the partition walls are erected, we place the Outlets near the rear edge, on top, to clear the front wall of the terra cotta brick.

<i>Snareflood</i>	30981 Box with one Nipple	\$1.00
<i>Snareguine</i>	30986 Gang Switch Boxes. Prices on application.	

For Double Tube System—Iron Armored.

<i>Snareless</i>	30983 Box, with two Nipples	1.25
<i>Snareplane</i>	30989 Gang Switch Box. Prices on application.	

For Double Tube System—Brass Armored.

<i>Snarehoe</i>	30984 Box with two Combination Nipples	1.45
Outside Dimensions: Height, 4 inches; Width, 2 $\frac{1}{2}$ inches; Depth, 3 $\frac{1}{2}$ inches.		
<i>Snarestorm</i>	30987 Gang Switch Boxes. Prices on application.	

Outlets are placed $\frac{1}{2}$ of an inch from rim for Brick or Terra Cotta work and $\frac{3}{4}$ of an inch for Lath and Plaster.

Switches extra.



No. 30981.

Iron Armored Insulating Conduit—(Continued.)

Combination Gas and Electric Side Outlet Box.



Nos. 30682, 30683.

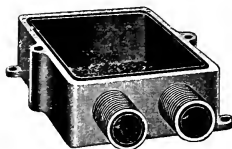
Single Tube System.

Code Word.	List No.	List Price. Each.
<i>Sworckite</i>	30681 1 Outlet for $\frac{3}{4}$ -inch Conduit.....	\$1.50
<i>Sworcy</i>	30683 2 " " $\frac{3}{4}$ " "	1.55

Unless otherwise specified all Boxes will be tapped for $\frac{3}{4}$ -inch gas pipe.

These Boxes are designed to be used for side outlets on walls or partitions. The diameter being small, a $\frac{3}{4}$ -inch fixture shell will cover them. The hole on back of Box is tapped to receive a $\frac{3}{4}$ -inch gas pipe. The thread on gas pipe must be cut back so that the pipe will project through the Box a sufficient length to allow an insulating joint to be screwed on. All Boxes of this type are porcelain lined.

Outlets are placed so as to leave $\frac{1}{8}$ of an inch for the hard finish of walls, between the outlets and front rim of Box for brick and terra cotta work, and $\frac{3}{4}$ of an inch for lath and plaster.



No. 32404 and 32407.

Outlet or Switch Box.

Double Tube System Complete with Nipples.

Code Word.	List No.	List Price. Each.
<i>Samb</i>	32404 Box for Terra Cotta or Brick work, 2 outlets...	\$1.15
<i>Swobnose</i>	32405 " " " " 4 " ...	1.70
<i>Swobpost</i>	32406 " " " " 4 " ...	1.70
<i>Swodge</i>	32407 " Lath and Plaster " 2 " ...	1.25
<i>Swuff</i>	32408 " " " 4 " ...	1.80
<i>Swuffbox</i>	32409 " " " 4 " ...	1.80

Inside dimensions for Brick or Terra Cotta: Length $2\frac{1}{2}$ in., width $2\frac{1}{2}$ in., depth $1\frac{3}{4}$ in.

Inside dimensions for Lath and Plaster: Length $2\frac{1}{2}$ in.; width $2\frac{1}{2}$ in., depth $2\frac{1}{4}$ in.

Outlets are placed $\frac{5}{8}$ of an inch from rim of Box for Brick and Terra Cotta work and $\frac{3}{4}$ of an inch for Lath and Plaster.

This Box, being but $2\frac{1}{4}$ inches square, is especially adapted for use with flush switches.



Nos. 32404. Nos. 32405. Nos. 32406.
32407. 32408. 32409.



No. 21515.



No. 21528.



No. 21534.



No. 21532.



No. 21530.

Interior Conduit—(Continued.)

Iron Armored Conduit—(Continued.)

Covers for Iron Armored Branch Junction or Outlet Boxes.

Code Word.	List No.	List Price. Each.
<i>Sciffold</i>	21515 537, Bronzed Polished Covers for 2½ in. Round Box.	\$0.35
<i>Scngiola</i>	21516 541, Nickeled " " 2½ " " "	.30
<i>Scnuble</i>	21517 538, Bronzed " " 3½ " " "	.40
<i>Scnude</i>	21518 546, Nickeled " " 3½ " " "	.35
<i>Scnld</i>	21519 547, Bronzed " " 2½ " " "	.55
<i>Scnldic</i>	21520 548, Nickeled " " 2½ " " "	.50
<i>Scnle</i>	21521 549, Bronzed " " 3½ " " "	.60
<i>Scnlene</i>	21522 551, Nickeled " " 3½ " " "	.55
<i>Scnlines</i>	21523 539, Bronzed " " 4½ " " "	.60
<i>Scnll</i>	21524 543, Nickeled " " 4½ " " "	.55
<i>Scnllion</i>	21525 521, Plain Cover for 2½ inch Round Box.	.15
<i>Scnllop</i>	21526 522, " " 3½ " " " "	.20
<i>Scnlloped</i>	21527 536, " " 4½ " " " "	.30
<i>Scnlp</i>	21528 524, Cover with Nipple, Female Thread, for 2½ inch Round Box.	.55
<i>Scnlpel</i>	21529 525, Cover with Nipple, Female Thread, for 3½ inch Round Box.	.60
<i>Scnly</i>	21530 527, Cover with Nipple, Male Thread, for 2½ inch Round Box.	.50
<i>Scnmbie</i>	21531 528, Cover with Nipple, Male Thread, for 3½ inch Round Box.	.60
<i>Scnmbler</i>	21532 530, Cover with Rubber Bushing for 2½ in. Round Box.	.35
<i>Scnmmony</i>	21533 531, Cover with Rubber Bushing for 3½ in. Round Box.	.40
<i>Scnmp</i>	21534 533, Cover for Receptacle for 2½ inch Round Box.	.20
<i>Scnmpcr</i>	21535 534, " " " 3½ " " "	.25
<i>Scnmtch</i>	24057 912, Plain Iron Cover, insulated lining	.25

Covers for all Boxes have an Insulating Lining.

Tools for Iron Armored Conduit.

Comstock Pipe Cutters.

<i>Scndant</i>	21537 Cuts from ¾ inch to 1 inch.	1.20
<i>Scndantize</i>	21538 " ¾ " 2 "	1.60
<i>Scndalous</i>	21539 " 1 " 2½ "	2.70

Butt Reamer.

This Reamer is fitted for use with ordinary brace. It should be used after a cut has been made to remove the "burr" from Iron Armor and to true up the end of Conduit. This operation should be performed before the thread is cut.

<i>Scandulously</i>	21540 Size of Conduit ¾ to 1½ inch	1.50
---------------------	------------------------------------	------



No. 21537.



No. 21540.

Interior Conduit—(Continued.)

Brass Armored Conduit.

For Direct and Alternating Currents.

This is plain conduit with a brass armor or covering drawn upon it. We furnish this tube for better protection against mechanical injury and the destructive action of the alkalis of cement, where used under tile floors or in like exposed places. When polished it will be found unequaled for surface work in the matter of finish and accessibility.



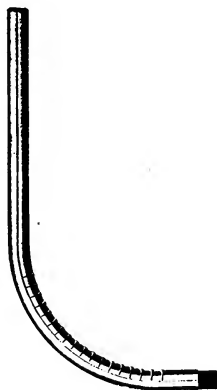
Code Word.	List No.	List Price. Per 100 Ft.
<i>Concrete</i>	3981 $\frac{1}{2}$ inch, inside diameter.....	\$ 4.95
<i>Concrete</i>	3982 $\frac{3}{4}$ " " " ".....	5.68
<i>Concur</i>	3983 $\frac{1}{2}$ " " " ".....	6.88
<i>Concurrence</i>	3984 $\frac{3}{4}$ " " " ".....	7.90
<i>Concurrence</i>	3985 1 " " " ".....	9.28
<i>Concurrent</i>	3986 $1\frac{1}{2}$ " " " ".....	12.22
<i>Concurring</i>	3987 $1\frac{1}{2}$ " " " ".....	14.95
<i>Concess</i>	3988 $1\frac{1}{2}$ " " " ".....	25.25



No. 21541.

No. 114 Brass Armored Elbow.

		Inside Diameter Inches.	Outside Diameter Inches.	Radius Inches.	Length over all Inches.	Per 100 Pieces.
<i>Seudent</i>	21541	$\frac{1}{4}$	.495	3 $\frac{1}{2}$	4 $\frac{1}{2}$	6.60
<i>Seunston</i>	21542	$\frac{3}{8}$	.625	4	5 $\frac{1}{2}$	8.00
<i>Seunsvoril</i>	21543	$\frac{1}{2}$	.730	4 $\frac{1}{2}$	6	10.20
<i>Seant</i>	21544	$\frac{3}{4}$	.792	4 $\frac{1}{2}$	6 $\frac{1}{2}$	11.80
<i>Seantily</i>	21545	$\frac{1}{2}$	1.000	6	7 $\frac{1}{2}$	15.60
<i>Seantiness</i>	21546	1	1.230	9	11 $\frac{1}{2}$	27.85
<i>Seantling</i>	21547	1 $\frac{1}{2}$	1.540	10	13 $\frac{1}{2}$	38.35
<i>Seantly</i>	21548	1 $\frac{1}{2}$	1.875	12	15 $\frac{1}{2}$	57.10



No. 21549.

No. 116 Brass Armored Long Elbow.

		Inside Diameter Inches.	Outside Diameter Inches.	Radius Inches.	Length over all Inches.	Per 100 Pieces.
<i>Seuntress</i>	21549	$\frac{1}{4}$	.490	3 $\frac{1}{2}$	17 $\frac{1}{2}$	16.00
<i>Seuntly</i>	21550	$\frac{3}{8}$	.625	4	17 $\frac{1}{2}$	17.75
<i>Seunte</i>	21551	$\frac{1}{2}$	.730	4 $\frac{1}{2}$	18	18.75
<i>Seupment</i>	21552	$\frac{3}{4}$	.792	4 $\frac{1}{2}$	18	20.25
<i>Seupula</i>	21553	$\frac{1}{2}$	1.000	6	19	26.25
<i>Seupular</i>	21554	1	1.230	8 $\frac{1}{2}$	23	41.00
<i>Seupulary</i>	21555	1 $\frac{1}{2}$	1.540	9 $\frac{1}{2}$	26	55.00



No. 1404.

Interior Conduit—(Continued.)

Brass Armored Conduit—(Continued.)

No. 114½ Brass Covered Short Elbow, with Attached Couplings.

Code Word.	List No.		List Price. Per 100.
<i>Immoderate</i>	1404	¾ inch, inside diameter.....	\$ 18.70
<i>Immodest</i>	1405	¾ " " " ".....	21.50
<i>Immodestly</i>	1406	¾ " " " ".....	25.60
<i>Immodest</i>	1407	¾ " " " ".....	30.00
<i>Immodest</i>	1408	¾ " " " ".....	43.00
<i>Immodestly</i>	1409	1 " " " ".....	63.00

No. 116½ Brass Covered Long Elbow, with Attached Couplings.

<i>Immoderate</i>	1417	¾ inch, inside diameter.....	26.00
<i>Immodest</i>	1418	¾ " " " ".....	28.75
<i>Immodestly</i>	1419	¾ " " " ".....	31.75
<i>Immodest</i>	1420	¾ " " " ".....	36.25
<i>Immodest</i>	1421	¾ " " " ".....	49.25
<i>Immodestly</i>	1422	1 " " " ".....	71.00

No. 117½ Brass Covered S Elbow, with Attached Couplings.

<i>Immoderate</i>	1430	¾ inch, inside diameter.....	25.75
<i>Immodest</i>	1431	¾ " " " ".....	28.25
<i>Immodestly</i>	1432	¾ " " " ".....	33.00
<i>Immodest</i>	1433	¾ " " " ".....	38.50
<i>Immodestly</i>	1434	¾ " " " ".....	50.50
<i>Immodest</i>	1435	1 " " " ".....	64.00

No. 115½ Brass Covered T, with Attached Couplings.

<i>Igniting</i>	1443	Mains ¾ inch, branch ¾ inch.....	90.75
<i>Ignition</i>	1444	" ¾ " " " ".....	95.00
<i>Ignoble</i>	1445	" ¾ " " " ".....	100.00
<i>Ilbred</i>	1446	" ¾ " " " ".....	114.00
<i>Illicit</i>	1447	" ¾ " " " ".....	132.00
<i>Illicitly</i>	1448	" 1 " " " ".....	167.00



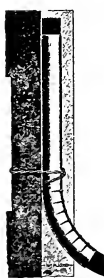
No. 21556.

Interior Conduit—(Continued.)

Brass Armored Conduit—(Continued.)

No. 117 Brass Armored S Elbows.

Code Word.	List No.	Inside Diameter inches.	Outside Diameter inches.	Offset inches.	Length over all inches.	List Price Per 100.
<i>Scap</i>	21556	$\frac{1}{8}$	.495	4	9	15.75
<i>Scared</i>	21557	$\frac{3}{8}$	.625	4	10 $\frac{1}{2}$	17.25
<i>Scarring</i>	21558	$\frac{1}{2}$	.730	4	11	20.00
<i>Scarce</i>	21559	$\frac{5}{8}$	.792	4	11	22.50
<i>Scarcely</i>	21560	$\frac{3}{4}$	1.000	4	11 $\frac{1}{2}$	27.50
<i>Scarceless</i>	21561	1	1.230	4	16	34.00
<i>Scarcity</i>	21562	1 $\frac{1}{4}$	1.540	4	17	50.00



No. 21563.

Terminal or Outlet Elbows.

These Elbows are made with a sharp bend and are especially adapted for Fixture Outlets. These Elbows are trimmed back $\frac{3}{8}$ of an inch; this trimming will be done without extra charge when so ordered, or can be readily accomplished by use of Universal Trimmer.

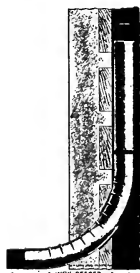
The radii of curves in these Elbows are much smaller than No. 21541, and they will be found better adapted for use at outlet.

No. 118 For Brick and Tile Work.

		Diameter inches.	Offset inches.	Length inches.	
<i>Scare</i>	21563	$\frac{1}{2}$	1 $\frac{1}{2}$	5 $\frac{1}{2}$	10.30
<i>Scarecrow</i>	21564	$\frac{3}{4}$	1 $\frac{1}{2}$	5 $\frac{1}{2}$	11.35
<i>Scarf</i>	21565	$\frac{1}{2}$	1 $\frac{1}{2}$	7	12.40
<i>Scarfel</i>	21566	$\frac{3}{4}$	1 $\frac{1}{2}$	8 $\frac{1}{2}$	12.60
<i>Scarfig</i>	21567	$\frac{1}{2}$	2	9	13.70
<i>Scarfskin</i>	21568	$\frac{3}{4}$	2 $\frac{1}{2}$	10 $\frac{1}{2}$	15.30

No. 119 For Lath and Plaster.

		Diameter inches.	Offset inches.	Length inches.	
<i>Scarifier</i>	21569	$\frac{1}{2}$	3	5 $\frac{1}{2}$	10.30
<i>Scarify</i>	21570	$\frac{3}{4}$	3	5 $\frac{1}{2}$	11.35
<i>Scarlatina</i>	21571	$\frac{1}{2}$	3	7	12.40
<i>Scarlet</i>	21572	$\frac{3}{4}$	3 $\frac{1}{2}$	8 $\frac{1}{2}$	12.60
<i>Scarp</i>	21573	$\frac{1}{2}$	4 $\frac{1}{2}$	9	13.70
<i>Scath</i>	21574	$\frac{3}{4}$	4 $\frac{1}{2}$	10 $\frac{1}{2}$	15.30



No. 21569.

Interior Conduit.—(Continued.)

Brass Armored Conduit—(Continued.)

Special Elbows.

No. 511.

Code Word.	List No.	Diameter Inches.	Radius of Bend. Inches.	Offset. Inches.	List Price. Per 100
<i>Scathe</i>	21575	$\frac{1}{8}$	3	8 $\frac{1}{2}$	\$13.20
<i>Scathful</i>	21576	$\frac{3}{8}$	3	9	16.00
<i>Scathless</i>	21577	$\frac{1}{2}$	4	11 $\frac{1}{2}$	20.40
<i>Scatler</i>	21578	$\frac{3}{4}$	4	12	23.60
<i>Scattered</i>	21579	$\frac{7}{8}$	5	14	31.20
<i>Scattering</i>	21580	1	7	21	55.70
<i>Scourger</i>	21581	1 $\frac{1}{2}$	9	24	64.70

No. 21575.

No. 518.

Code Word.	List No.	Diameter Inches.	Radius of Bend. Inches.	Offset. Inches.	List Price. Per 100
<i>Scene</i>	21582	$\frac{1}{8}$	3	7 $\frac{1}{2}$	13.20
<i>Scenery</i>	21583	$\frac{3}{8}$	3	8	16.00
<i>Scenic</i>	21584	$\frac{1}{2}$	4	10 $\frac{1}{2}$	20.40
<i>Scenical</i>	21585	$\frac{3}{4}$	4	11	23.60
<i>Scenographic</i>	21586	$\frac{7}{8}$	5	12 $\frac{1}{2}$	31.20
<i>Scenography</i>	21587	1	7	20	55.70
<i>Scent</i>	21588	1 $\frac{1}{2}$	9	23	64.70

List for Additional Length of Straight Run.

Code Word.	List No.	Diameter. Inches.	Per Foot.
<i>Scentless</i>	21589	$\frac{5}{8}$	.05
<i>Scepter</i>	21590	$\frac{3}{4}$	.06
<i>Sceptered</i>	21591	$\frac{1}{2}$	.07
<i>Sceptic</i>	21592	$\frac{3}{8}$	.08
<i>Schedule</i>	21593	$\frac{1}{4}$	.09
<i>Schematization</i>	21594	1	.12
<i>Schematist</i>	21595	1 $\frac{1}{2}$	.15

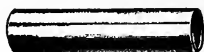
No. 21582.

Return Elbows.

No. 515.

Code Word.	List No.	Diameter Inches.	Radius of Bend. Inches.	Distance between sides. Inches.	Per 100.
<i>Scheme</i>	21596	$\frac{1}{8}$	3	6	13.20
<i>Schemer</i>	21597	$\frac{3}{8}$	4	8	16.00
<i>Schemist</i>	21598	$\frac{1}{2}$	4 $\frac{1}{2}$	9	20.40
<i>Schism</i>	21599	$\frac{3}{4}$	5	10	23.60
<i>Schismatic</i>	21600	$\frac{7}{8}$	6	12	31.20
<i>Schist</i>	21601	1	7	18	55.70
<i>Schitose</i>	21602	1 $\frac{1}{2}$	9	22	76.70

No. 21596.



No. 21604.

Interior Conduit—(Continued.)

Brass Armored Conduit—(Continued.)



No. 21604—After use of Coupling Tool.



No. 21612—Cross Section—Before using Coupling Tool.



No. 21612—After use of Coupling Tool.

Couplings.

No. 103½, Plain.

Code Word.	List No.		List Price. Per 100.
<i>Schistons</i>	21603	$\frac{1}{8}$ inch Seamless Brass, 2½ inches long.....	\$2.00
<i>Scholar</i>	21604	$\frac{1}{4}$ " " " 2½ " "	2.00
<i>Scholarly</i>	21605	$\frac{1}{2}$ " " " 2½ " "	2.25
<i>Scholastic</i>	21606	$\frac{3}{4}$ " " " 2½ " "	2.35
<i>Schottast</i>	21607	$\frac{1}{2}$ " " " 2½ " "	3.25
<i>Scholium</i>	21608	1 " " " 3½ " "	4.45
<i>School</i>	21609	1½ " " " 3½ " "	7.35
<i>Schooling</i>	21610	1½ " " " 3½ " "	12.00

No. 103, Insulated.

<i>Schooner</i>	21611	$\frac{1}{8}$ inch Seamless Brass.....	3.60
<i>Schoot</i>	21612	$\frac{1}{4}$ " " "	3.90
<i>Sciatio</i>	21613	$\frac{1}{2}$ " " "	4.30
<i>Sciatica</i>	21614	$\frac{3}{4}$ " " "	4.75
<i>Science</i>	21615	1 " " "	7.50
<i>Scientific</i>	21616	1 " " "	8.60
<i>Scilicet</i>	21617	1½ " " "	12.50
<i>Accountbook</i>	25483	1½ " " "	49.00

Sizes given with above Couplings are those of the inside diameter of the Conduit Tubes for which they are intended.

Sheet Brass Clips for Conduits.



No. 1573.

<i>Indent</i>	1573	$\frac{1}{4}$ inch per gross.....	.50
<i>Indented</i>	1574	$\frac{1}{8}$ " " " .....	.50
<i>India</i>	1575	$\frac{1}{4}$ " " " .....	.65
<i>Indian</i>	1576	$\frac{1}{2}$ " " " .....	.80
<i>Indicate</i>	1577	$\frac{3}{4}$ " " " .....	.90
<i>Indignant</i>	1578	$\frac{1}{2}$ " " "	1.00
<i>Indignation</i>	1579	1 " " "	1.40
<i>Indignity</i>	1580	1½ " " "	2.00

Twisted Wire Clips for Conduits.



No. 1581.

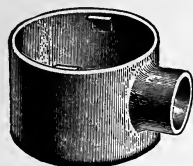
<i>Indirect</i>	1581	Size A, 4 inches long, for tubes up to $\frac{1}{2}$ inch, inclusive, per 1,000.....	4.00
<i>Indirection</i>	1582	" B, 7 " " " 1 " " "	5.00

We recommend for use with these Wire Clips Flat Head Nails, which we will furnish at the following net prices:

1 inch. per pound .....	.08
1½ " " .....	.07

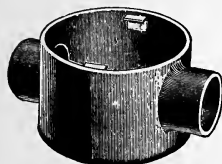
Interior Conduit—(Continued).

Branch Circuit Junction Boxes—Plain and Brass Covered.



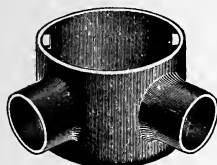
No. 1449.

Code Word.	List No.	List Price.
<i>Illiterate</i>	1449 No. 46, $\frac{3}{8}$ inch branches, plain, each.....	\$0.30
<i>Iljudged</i>	1450 " 46, $\frac{1}{2}$ " " " " .....	.30
<i>Illogical</i>	1451 " 46, $\frac{3}{8}$ " " " " " " " " .....	.50
<i>Ilude</i>	1452 " 46, $\frac{1}{2}$ " " " " " " " " .....	.50



No. 1453.

<i>Image</i>	1453 No. 40, $\frac{3}{8}$ inch branches, plain, each.....	.33
<i>Imaged</i>	1454 " 40, $\frac{1}{2}$ " " " " " " " " .....	.33
<i>Imbecile</i>	1455 " 40, $\frac{3}{8}$ " " " " " " " " .....	.33
<i>Imbecility</i>	1456 " 40, $\frac{3}{8}$ " " " " " " " " " " .....	.55
<i>Imbed</i>	1457 " 40, $\frac{1}{2}$ " " " " " " " " " " .....	.55
<i>Imbedded</i>	1458 " 40, $\frac{3}{8}$ " " " " " " " " " " .....	.55



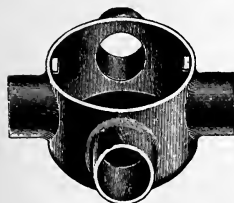
No. 1459.

<i>Imbedding</i>	1459 No. 42, $\frac{3}{8}$ inch branches, plain, each.....	.33
<i>Imbiber</i>	1460 " 42, $\frac{1}{2}$ " " " " " " " " .....	.33
<i>Imbining</i>	1461 " 42, $\frac{3}{8}$ " " " " " " " " .....	.33
<i>Imbitter</i>	1462 " 42, $\frac{3}{8}$ " " " " " " " " " " .....	.55
<i>Imbittering</i>	1463 " 42, $\frac{1}{2}$ " " " " " " " " " " .....	.55
<i>Imbittered</i>	1464 " 42, $\frac{3}{8}$ " " " " " " " " " " .....	.55



No. 1465.

<i>Imbody</i>	1465 No. 41, $\frac{3}{8}$ inch branches, plain, each.....	.35
<i>Imbosom</i>	1466 " 41, $\frac{1}{2}$ " " " " " " " " .....	.35
<i>Imbound</i>	1467 " 41, $\frac{3}{8}$ " " " " " " " " .....	.35
<i>Imbow</i>	1468 " 41, $\frac{3}{8}$ " " " " " " " " " " .....	.55
<i>Imbowed</i>	1469 " 41, $\frac{1}{2}$ " " " " " " " " " " .....	.55
<i>Imbowing</i>	1470 " 41, $\frac{3}{8}$ " " " " " " " " " " .....	.55

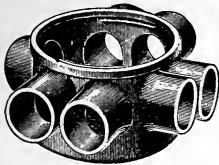


No. 1471

<i>Imbowment</i>	1471 No. 47, $\frac{3}{8}$ inch branches, plain, each.....	.38
<i>Imbox</i>	1472 " 47, $\frac{1}{2}$ " " " " " " " " .....	.38
<i>Imitable</i>	1473 " 47, $\frac{3}{8}$ " " " " " " " " .....	.38
<i>Imitate</i>	1474 " 47, $\frac{3}{8}$ " " " " " " " " " " .....	.60
<i>Imitation</i>	1475 " 47, $\frac{1}{2}$ " " " " " " " " " " .....	.60
<i>Imitating</i>	1476 " 47, $\frac{3}{8}$ " " " " " " " " " " .....	.60

Interior Conduit—(Continued).

Branch Circuit Junction Boxes—Plain and Brass Covered.



No. 1507—Eight Outlets.

Code Word.	List No.			List Price.
<i>Impolitic</i>	1507	$\frac{1}{2}$ inch	branches, plain, each.....	\$0.50
<i>Impolitely</i>	1508	$\frac{9}{16}$ "	" " " "	.50
<i>Import</i>	1509	$\frac{1}{2}$ "	" " " "	.50
<i>Important</i>	1510	$\frac{1}{2}$ "	" " brass covered, each.....	.70
<i>Importance</i>	1511	$\frac{1}{16}$ "	" " " "	.70
<i>Important</i>	1512	$\frac{1}{16}$ "	" " " "	.70



No. 1513—Two Outlets.

<i>Importantly</i>	1513	$\frac{1}{8}$ inch	branches, plain, each.....	.33
<i>Importation</i>	1514	$\frac{1}{8}$ "	" " " " .....	.33
<i>Imported</i>	1515	$\frac{1}{8}$ "	" " " " .....	.33
<i>Importer</i>	1516	$\frac{1}{8}$ "	" " brass covered, each.....	.55
<i>Importing</i>	1517	$\frac{1}{8}$ "	" " " " .....	.55
<i>Importune</i>	1518	$\frac{1}{8}$ "	" " " " .....	.55

Metal Covers for Branch Boxes.



No. 60.
Fancy Cover,
Regular.



No. 597.
Fancy Cover,
With Rubber Bushing.

<i>Killing</i>	63	Dipped brass, each.....	.10
<i>Kiln</i>	66	" "	.15
<i>Kitt</i>	60	" "	.20
<i>Kimbo</i>	597	" "	.25
<i>Kindle</i>	599	" "	.25
<i>Kindled</i>	857	" "	.35



No. 63.
Plain Cover,
Regular.



No. 66.
Plain Cover,
With Rubber Bushing.

<i>Kindlier</i>	1275	Polished Brass, each.....	.15
<i>Kindliest</i>	1276	" " " " .....	.20
<i>Kindliness</i>	1277	" " " " .....	.25
<i>Kindling</i>	1278	" " " " .....	.30
<i>Kindness</i>	1279	" " " " .....	.30
<i>Kindred</i>	1280	" " " " .....	.40



No. 857
Fancy Cover,
With 2½ inch Holder.



No. 599.
Fancy Cover,
With Nozzle for Sockets.

<i>Kingbird</i>	1273	Black Iron, each. ....	.06
<i>Kingcraft</i>	274	" " " .....	.11



Interior Conduit—(Continued.)

Polished Brass Armored Conduit.

For Exposed Surface Work.

For this purpose the regular Brass Armored Conduit Elbows and Fittings are highly polished and coated with a fine quality of lacquer. The Conduit can be held directly on the surface of the walls by polished brass clips. This class of work has been largely used in buildings that were not originally wired for electric light, and presents a very neat appearance.

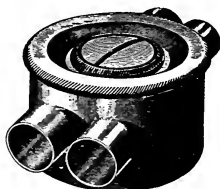
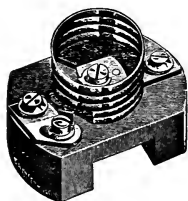


Fig. 1.



No. 21626.



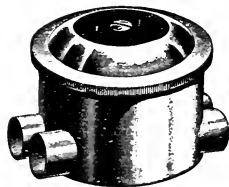
No. 21628.



No. 21630.



No. 21632.



No. 21633.



No. 21635.

Code Word.	List No.		List Price. Per 100 Ft.
<i>Scimitar</i>	21618	$\frac{1}{8}$ inch inside diameter.....	\$ 9.95
<i>Scimitar</i>	21619	$\frac{3}{8}$ " " "	10.68
<i>Scintillant</i>	21620	$\frac{1}{2}$ " " "	11.88
<i>Scintillant</i>	21621	$\frac{3}{4}$ " " "	12.90
<i>Scintillant</i>	21622	1 " " "	14.28
<i>Scion</i>	21623	1 " " "	20.22
<i>Scirrhus</i>	21624	1 $\frac{1}{2}$ " " "	24.95
<i>Scission</i>	21625	1 $\frac{1}{2}$ " " "	

Sockets and Receptacles for Conduit. Branch Boxes.

Figure 1 shows the complete Socket and Receptacle included in Branch Box, in which it is held in position by the Brass Cover, No. 21628, and the Rubber Screw Ring, No. 21632; the Dummy Plug, No. 21630, of wood or hard rubber is also shown. The whole is arranged so that no part projects beyond the cover itself or its edge. This has been done with special reference to the use of the device as a Floor Receptacle, and is an advantage in any place where it may be used.

	Each.
<i>Scissors</i> 21626 Socket with porcelain base including cut-out.....	.75
<i>Sclerotic</i> 21627 Receptacle with porcelain base without cut-out.....	.65
<i>Scuff</i> 21628 Cover for No. 21626 and 21627, brass, plain .....	.15
<i>Sold</i> 21629 " " 21626 " 21627, " polished .....	.25
<i>Sounce</i> 21630 Dummy plug to protect contacts when Socket or Receptacle is not in use, wood.....	.15
<i>Scoop</i> 21631 Dummy plug, made of hard rubber.....	.50
<i>Scope</i> 21632 Hard rubber screw ring for Nos. 21626 and 21627 .....	.10

Attachment Plug and Receptacle.

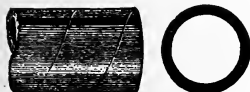
<i>Scorbutic</i> 21633 Receptacle, including cover to fit Branch Boxes, polished brass	2.75
<i>Score</i> 21635 Attaching plug, hard rubber	2.75

Interior Conduit—(Continued.)

Plain Conduit.

Since the introduction of Armored Conduits there has been an increased demand for the plain conduit in making installations for electric bells, telephones, telegraph, district messenger and other systems employing low tension currents.

All tubes and elbows are cut squarely, thoroughly reamed and tested for obstructive matter by passing a test line through them, thus reducing labor of installation and waste material to a minimum.



Code Word.	List No.		List Price, Per 100 Ft.
Condemn	3971	$\frac{1}{4}$ inch, inside diameter, grade 1.....	\$2.25
Condemner	3972	$\frac{1}{8}$ " " " " " 1.....	2.25
Condemning	3973	$\frac{3}{8}$ " " " " " 1.....	2.75
Condensation	3974	$\frac{1}{2}$ " " " " " 1.....	3.75
Condensate	3975	$\frac{3}{4}$ " " " " " 1.....	4.25
Condense	3976	1 " " " " " 1.....	5.25
Condensed	3977	$1\frac{1}{4}$ " " " " " 1.....	8.00
Condescend	3978	$1\frac{1}{2}$ " " " " " 1.....	12.50
Conditment	3979	2 " " " " " 1.....	20.00
Condite	3980	$2\frac{1}{2}$ " " " " " 1.....	32.00

$\frac{1}{4}$ inch size in six foot lengths; all other sizes in ten foot lengths.

No. 110, Standard Short Elbow.

			Per 100.
Impearling	1338	$\frac{1}{4}$ inch inside diameter.....	5.50
Impede	1339	$\frac{1}{8}$ " " " " ".....	5.50
Impeded	1340	$\frac{3}{8}$ " " " " ".....	5.60
Impeding	1342	$\frac{1}{2}$ " " " " ".....	7.50
Impetiline	1343	$\frac{3}{4}$ " " " " ".....	10.00
Impel	1344	1 " " " " ".....	13.00
Impelled	1345	$1\frac{1}{4}$ " " " " ".....	25.00
Impellent	1346	$1\frac{1}{2}$ " " " " ".....	47.00

Larger Sizes Furnished to Order.

No. 112, Plain Long Elbow.

Impenned	1354	$\frac{1}{4}$ inch, inside diameter.....	15.50
Impennung	1355	$\frac{1}{8}$ " " " " ".....	16.00
Imperceptible	1356	$\frac{3}{8}$ " " " " ".....	17.75
Imperfection	1358	$\frac{1}{2}$ " " " " ".....	19.75
Imperfectly	1359	$\frac{3}{4}$ " " " " ".....	21.75
Imperfection	1360	1 " " " " ".....	25.00
Imperforate	1361	$1\frac{1}{4}$ " " " " ".....	32.50



No. 1338.



No. 1354.



No. 1369.

Interior Conduit.—(Continued.)

Plain Conduit.—(Continued.)

No. 113, Plain S Elbow.

Code Word.	List No.		List Price Per 100.
Imperishably	1369	$\frac{1}{2}$ inch, inside diameter.....	\$15.25
Impersonate	1370	$\frac{3}{8}$ " " ".....	15.75
Impersonated	1371	$\frac{3}{8}$ " " ".....	17.25
Impertinent	1373	$\frac{3}{8}$ " " ".....	22.50
Impertinently	1374	$\frac{3}{8}$ " " ".....	27.50
Impertuous	1375	1 " " ".....	34.00
Impertuously	1376	1 $\frac{1}{2}$ " " ".....	50.00



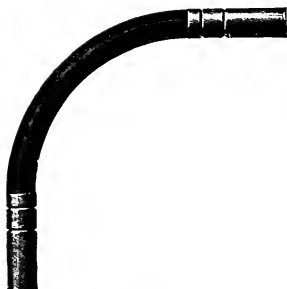
No. 1384.

No. 111, Plain T or Double Elbow.

Impious	1384	Mains $\frac{5}{8}$ inch, Branch $\frac{1}{2}$ inch.....	16.25
Impiously	1385	" " " " $\frac{1}{2}$ ".....	16.50
Impish	1387	" " " " $\frac{3}{8}$ ".....	18.75
Immerge	1388	" " " " $\frac{3}{8}$ ".....	20.25
Immerged	1389	" " " " $\frac{3}{8}$ ".....	25.00
Immerging	1390	" 1 " " $\frac{3}{8}$ ".....	35.00

No. 110 $\frac{1}{2}$, Plain Short Elbow, with Attached Couplings.

Immeshing	1397	$\frac{1}{2}$ inch, inside diameter.....	13.30
Imminent	1398	$\frac{3}{8}$ " " ".....	13.30
Immingle	1399	$\frac{3}{8}$ " " ".....	13.50
Immure	1401	$\frac{3}{8}$ " " ".....	18.50
Immured	1402	$\frac{3}{8}$ " " ".....	22.00
Immuring	1403	1 " " ".....	30.00



No. 1410.

No. 112 $\frac{1}{2}$, Plain Long Elbow, with Attached Couplings.

Immolation	1410	$\frac{1}{2}$ inch, inside diameter.....	23.50
Immoral	1411	$\frac{3}{8}$ " " ".....	24.00
Immortality	1412	$\frac{3}{8}$ " " ".....	25.75
Immortalize	1414	$\frac{3}{8}$ " " ".....	30.00
Immortalize	1415	$\frac{3}{8}$ " " ".....	34.00
Immuable	1416	1 " " ".....	41.00

No. 113 $\frac{1}{2}$, Plain S Elbow, with Attached Couplings.

Impairing	1423	$\frac{1}{2}$ inch, inside diameter.....	23.00
Impale	1424	$\frac{3}{8}$ " " ".....	23.60
Impalement	1425	$\frac{3}{8}$ " " ".....	25.50
Impartial	1427	$\frac{3}{8}$ " " ".....	31.00
Impartible	1428	$\frac{3}{8}$ " " ".....	39.75
Imparting	1429	1 " " ".....	50.00

No. 111 $\frac{1}{2}$, Plain T, with Attached Couplings.

Impearl	1436	Mains $\frac{5}{8}$ inch, Branch $\frac{1}{2}$ inch.....	26.25
Impearled	1437	" " " " $\frac{1}{2}$ ".....	27.90
Idolize	1439	" " " " $\frac{3}{8}$ ".....	29.50
Igenous	1440	" " " " $\frac{1}{2}$ ".....	32.25
Ignite	1441	" " " " $\frac{3}{8}$ ".....	34.50
Ignited	1442	" 1 " " $\frac{3}{8}$ ".....	41.00

Interior Conduit—(Continued).

Staple Drivers.

Code Word.	List No.	List Price.
<i>Indispose</i>	1583 $\frac{1}{2}$ inch, each, net.....	\$0.10
<i>Indisposed</i>	1584 $\frac{5}{16}$ " " .....	.11
<i>Indisposing</i>	1585 $\frac{3}{8}$ " " .....	.12
<i>Indistinct</i>	1586 $\frac{1}{2}$ " " .....	.14
<i>Indistinctly</i>	1587 $\frac{5}{8}$ " " .....	.16
<i>Indorse</i>	1588 $\frac{3}{4}$ " " .....	.18
<i>Indorsed</i>	1589 1 " " .....	.20
<i>Indorsement</i>	1590 $1\frac{1}{2}$ " " .....	.24

No. 1583.

Coupling Tool.

<i>Indorser</i>	1591 $\frac{1}{2}$ inch, each, net.....	.90
<i>Induce</i>	1592 $\frac{3}{8}$ " " .....	.90
<i>Induct</i>	1593 $\frac{1}{2}$ " "	1.00
<i>Inducted</i>	1594 $\frac{3}{4}$ " "	1.20
<i>Inducting</i>	1595 $\frac{1}{2}$ " "	1.25
<i>Inductive</i>	1596 $\frac{3}{4}$ " "	1.50
<i>Inductor</i>	1597 1 " "	1.75
<i>Indulge</i>	1598 $1\frac{1}{2}$ " "	2.15

No. 1591.

Miscellaneous.

<i>Indulgent</i>	1316 Staples, all sizes, per pound, net.....	.10
<i>Industry</i>	1317 Compound for Making Joints, per pound, net..	.20
<i>Inez</i>	1318 Powdered Soapstone, per pound, net .....	.04
<i>Infamous</i>	1319 Fishing Wire, per foot, net.....	.01

Finishing and Fitting Tools for Conduits.

<i>Infamy</i>	153 Outside Reamer, each.....	1.00
---------------	-------------------------------	------

No. 153—Outside Reamer.

<i>Infancy</i>	154 Inside Reamer, each.....	1.00
----------------	------------------------------	------

No. 154—Inside Reamer.

<i>Infantile</i>	157 Combination Reamer each.....	1.90
------------------	----------------------------------	------

No. 157—Combination Reamer.

<i>Infected</i>	156 Universal Trimmer for Brass Covered Conduit Tube, for all size conduits, each.....	4.25
-----------------	--	------

No. 156.
Trimmer for Metal Covered Conduit Tube.

Interior Conduit—(Continued.)

Instructions.

In ordering Tube and Fittings the proper amount of Fittings bears about the following ratio to the Tube:

Three Couplings to every ten feet of Brass Armored Tube.

Four Couplings to every ten feet of Iron Armored Tube.

Four Elbows to every thirty feet of Tube.

Fifteen Clips to every thirty feet of Plain or Brass Armored Tube.

The number of Main Line, Junction, Feeder and other Boxes can only be determined by actual count and the arrangement of the circuits.

Small quantities of Compound, for sealing Tubes in Junction Boxes, Soapstone and Fishing Wire, should always accompany every order.

Iron Armored Conduit is shipped in bundles, securely tied.

Packing Charges are as follows: Slats for Bundling Plain or Brass Armored Conduit, 7 cts. each; Six-foot Crates, 75 cts. each; Ten-foot Crates, \$1.00 each; Barrels, 25 cts. each; Small Boxes, 15 cts. and 25 cts. each.

We charge net cost of material only, and are not reimbursed for the labor expended in packing.

Flexible Conduit.

For Interior Wiring.



Code Word.	List No.		List Price. Per foot.
<i>Amidships</i>	3925	$\frac{1}{4}$ inch inside diameter	\$0.06
<i>Amiss</i>	3926	$\frac{3}{8}$ " " " .....	.07
<i>Ammunition</i>	3927	$\frac{1}{2}$ " " " .....	.08
<i>Amnesty</i>	3928	$\frac{5}{8}$ " " " .....	.10
<i>Among</i>	3929	$\frac{3}{4}$ " " " .....	.12
<i>Amorous</i>	3930	1 " " " .....	.16
<i>Amount</i>	3931	$1\frac{1}{4}$ " " " .....	.20

Shipped in coils unless specially ordered on reels.

Size of Coils and Weight.

	Feet per Coil.	Weight per 1000 Feet.
$\frac{1}{4}$ inch inside diameter	250	90
$\frac{3}{8}$ " " "	250	100
$\frac{1}{2}$ " " "	200	125
$\frac{5}{8}$ " " "	200	140
$\frac{3}{4}$ " " "	150	175
1 " " "	100	250
$1\frac{1}{4}$ " " "	100	280



Two Duct.



Three Duct.



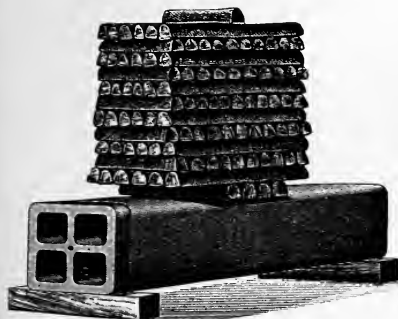
All Styles are made Six Feet Long.



Four Duct.



Six Duct.



This cut is taken from a photograph showing a four chamber Conduit, 8 x 8 inches, six feet long, distance between bearings five feet four inches, supporting seven tons of pig iron.



Cross section of six chamber Conduit, showing position of dowl pins in abutting joints.

The McRoy Vitrified Terra Cotta Conduit.

Manufactured from pure shale, finely ground, giving density and smoothness; is thoroughly and uniformly burned, affording good alignment and adding great bearing strength.

Made in lengths of 6 feet, and widths of 8½ and 13 inches, this size alone commends it to general favor owing to the great surface bearing of each piece.

In cross section dimensions the outer walls are ¾ in. with partitions ½ in. thick, and duct openings 3¼ x 3¼ inches square, with rounded corners.

The interior and exterior of Conduit being thoroughly salt glazed, prevents the moisture from penetrating.

The ends of each piece have the duct openings beveled to avoid any possibility of cable coming in contact with sharp edges.

Being manufactured of shale places it foremost as a material not affected by electrolysis or any gases or acids in the earth, besides being entirely free from corrosion.

The large amount of duct area obtainable in the McRoy Conduit compared with the small cross section of Conduit is well worthy of consideration.

Being made in multiples of two, three, four and six ducts, any odd number of multiple Conduit can be constructed.

In making joint a simple Portland cement mortar coating around joint is generally used.

To make an airtight joint a strip of burlap 8 to 10 inches wide, saturated with hot liquid asphalt is wrapped several times around joint, adding to its rigidity and making joint waterproof. No cement mortar is needed for this joint.

It can be laid surrounded entirely by concrete, in which case the concrete on the sides necessarily need not be very thick.

It is considered practical to lay it on a concrete foundation, none on sides, but the top covered with concrete for protection against the users of picks.

Prices Quoted on Application.

Western Electric Fan Motors.

Fan Motors for Direct Current Incandescent Circuits.

In designing the W. E. Fan Motor for 1898, great attention has been given to the essential qualities of a Fan Motor, namely: Cost, Appearance, Economy of Operation and Durability, and we feel warranted in saying that this motor possesses all these requirements to a remarkable degree. The design of the Motor is artistic and graceful, and when running at the maximum speed the 16 inch motor consumes but little more current than an ordinary 16 candle power incandescent lamp and the 12 inch motor consumes less than any ordinary 16 candle power lamp. The motor is designed upon scientific principles, and drop-forged steel is used in the construction of the horseshoe field magnets—the most economical form of magnet known—all of which contributes to the extraordinary high efficiency obtained in the motor.

The armature is iron-clad and furnished with mica-insulated commutator, and is entirely encased by the metal of the motor, protecting it from dust and injury from external sources.

The brush holders are so designed as to automatically take up the wear of the carbons, without the necessity of manual adjustment, and to press the carbon brushes upon the commutator in the direction of rotation. This is a very essential feature for noiseless operation.

The Motor is furnished with self-oiling, self-aligning bearings and is silent in operation, the only noise to be detected being caused by the whirring of the fan through the air.

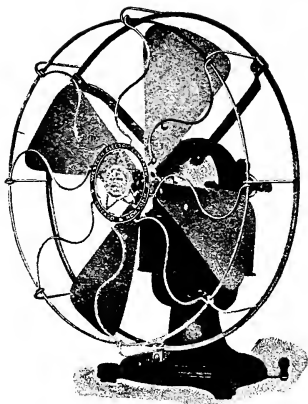
The utmost care in the selection of material and assembling of the Motors is maintained and every Motor is guaranteed.

These Motors have three speeds and are furnished with 16-inch and 12-inch Fan Blades.

The 16-inch Motor is wound for 110, 220 and 550 volts direct current. The 12-inch Motor is wound for 110 volts only.

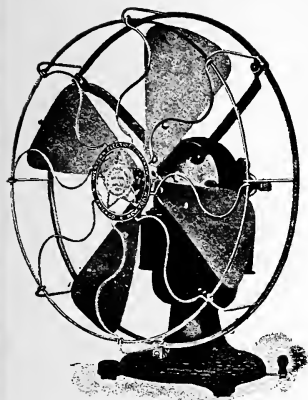
The Ceiling Fan Motors have three speeds and are furnished with 60 inch Fan Blades. They are wound for 110, 220 and 550 volts, direct current.

The Column Fan Motors have two speeds.



Desk Fan Motor—12 inch

Direct Current Fan Motor—(Continued.)



Desk Fan Motor—12 inch.

Western Electric Desk Fan, 12-inch, 110 Volts.

List No.	List Price, Each
F-1	One-sixteenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,875, 1,500 and 1,200 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, black enamel finish, complete with 12-inch black enamel fan and guard.....
	\$34.00
F-2.	With polished brass Fan and Guard, and all other outside brass fittings polished.....
	34.00
F-3	With nickel-plated Fan and Guard, and all other outside brass fittings nickel-plated.....
	34.00

Western Electric Desk Fan, 16-inch, 110 Volts.

A-4.	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375, 1,000 and 750 revolutions per minute at 110 volts for constant potential circuits up to 125 volts, self-aligning, self-oiling bearings, enamel finish, complete 16 inch black enamel Fan and Guard.....	43.00
A-5.	With polished brass Fan and Guard, and all other outside brass fittings, polished.....	43.00
A-6.	With nickel-plated Fan and Guard, and all other outside brass fittings nickel-plated.....	43.00

Western Electric Desk Fan, 16-inch, 220 Volts.

AA-13	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375, 1,000 and 750 revolutions per minute at 220 volts, for constant potential circuits up to 240 volts, self-aligning, self-oiling bearings, with polished brass Fan and Guard and all other outside brass fittings polished.....	50.00
-------	---	-------

Western Electric Desk Fan, 16-inch, 500 Volts.

AAA-15	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375, 1,000 and 750 revolutions per minute at 500 volts, for constant potential circuits, up to 550 volts, self-aligning, self-oiling bearings, with polished brass Fan and Guard and all other outside brass fittings polished.	55.00
--------	---	-------

In ordering give List No. and Voltage.



Desk Fan Motor—16 inch.



Bracket Fan Motor
12-inch.

Direct Current Fan Motors—(Continued.)

Western Electric Bracket Fan, 12-inch, 110 Volts.

List No	List Price Each.
F-7	One-sixteenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,875, 1,500 and 1,200 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan; feet of base drilled for screws; black enamel finish; complete with 12-inch black enamel Fan and Guard.....\$34.00
F-8	With polished brass Fan and Guard, and all other outside brass fittings polished..... 34.00
F-9	With nickel-plated Fan and Guard, and all other outside brass fittings nickel-plated..... 34.00

Western Electric Bracket Fan, 16-inch, 110 Volts.

A-10	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,375, 1,000 and 750 revolutions per minute at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan; feet of base drilled for screws; black enamel finish; complete, with 16-inch Fan and Guard..... 43.00
A-11	With polished brass Fan and Guard, and all other outside brass fittings polished..... 43.00
A-12	With nickel-plated Fan and Guard, and all other outside brass fittings nickel-plated..... 43.00

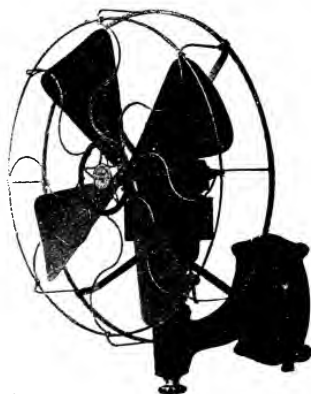
Western Electric Bracket Fan, 16-inch, 220 Volts.

AA-14	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,375, 1,000 and 750-revolutions per minute at 220 volts, for constant potential circuits, up to 240 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan, feet of base drilled for screws; polished brass Fan and Guard, and all other outside brass fittings polished..... 50.00
-------	---

Western Electric Bracket Fan, 16-inch, 500 Volts.

AAA-16.	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,500, 1,200 and 800 revolutions per minute at 500 volts, for constant potential circuits, up to 550 volts, self-aligning, self-oiling bearings, thumbscrew for adjusting direction of Fan, feet of base drilled for screws; complete, with 16-inch Fan and Guard..... 55.00
---------	--

In ordering give List No. and Voltage.



Bracket Fan Motor
16-inch.

Direct Current Fan Motors—(Continued.)

Western Electric Ceiling Fan, 110 Volts.

List No.

List Price,
Each.

- C-34. W. E. Ceiling Fan Motor, with regulating switch, giving three speeds, viz.: 175, 140 and 115 revolutions per minute, at 110 volts, for constant potential circuits, up to 125 volts, self-aligning, self-oiling bearings, polished brass, oxidized copper or nickel finish, four 60-inch blades, for ceilings from 10 to 12 feet in height, complete without chandelier attachments..... **\$45.00**

For ceilings over 12 feet in height add 50 cents to the above list for each additional 6 inches.

Western Electric Ceiling Fan, 220 Volts.

CC-35.

- W. E. Ceiling Fan Motor, with regulating switch, giving three speeds, viz.: 175, 140 and 115 revolutions per minute, at 220 volts, for constant potential circuits up to 240 volts, self-aligning, self-oiling bearings, polished brass, oxidized copper or nickel finish, four 60-inch blades, for ceilings from 10 to 12 feet in height, complete without chandelier attachments..... **53.00**

For ceilings over 12 feet in height add 50 cents to the above list for each additional 6 inches.

Western Electric Ceiling Fan, 500 Volts.

CCC-36.

- W. E. Ceiling Fan Motor, with regulating switch, giving three speeds viz.: 175, 140 and 115 revolutions per minute, at 500 volts, for constant potential circuits, up to 550 volts, self-aligning, self-oiling bearings, polished brass, oxidized copper or nickel finish, four 60-inch blades, for ceilings from 10 to 12 feet in height, complete without chandelier attachments..... **63.00**

For ceilings over 12 feet in height add 50 cents to the above list for each additional 6 inches.

Special prices quoted for Ceiling Fans with two, three or more brackets arranged for Incandescent Electric Lights.

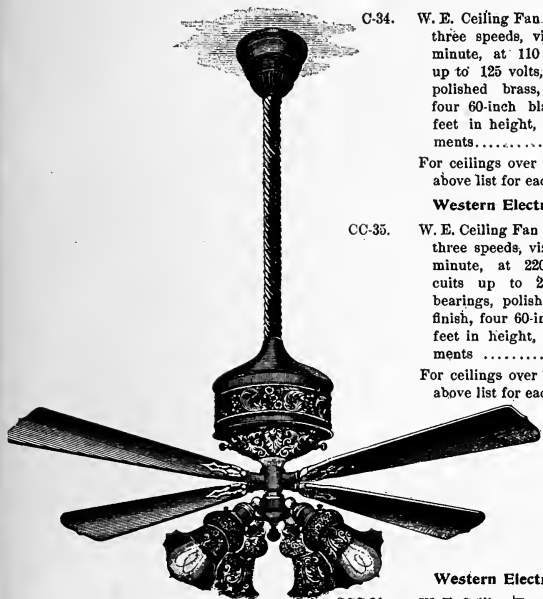
For chandelier attachment including four rigid ball joints, for T.-H. or Westinghouse sockets four shade holders and four crimped porcelain shades 6 inches diameter, the whole wired to socket, additional..... **2.50**

For the above with Edison sockets, instead of T.-H. or Westinghouse..... **2.75**

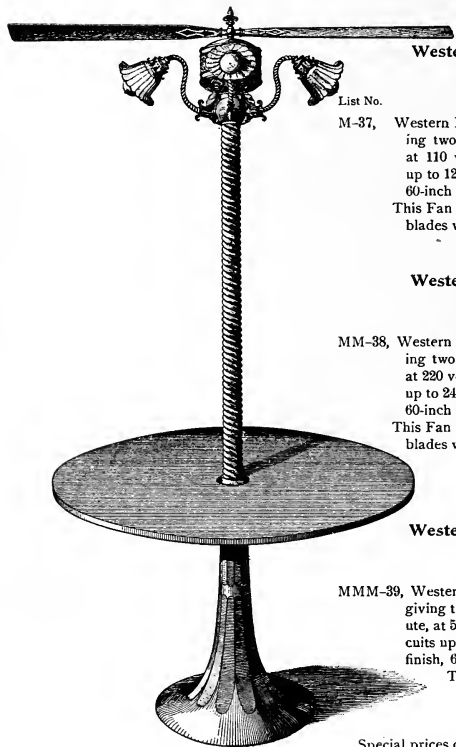
Hubs specially designed for two blades will be furnished if ordered.

Fan with two blades; three speeds, viz.: 210, 170 and 147 revolutions per minute.

In ordering give List No. and Voltage.



Direct Current Fan Motors—(Continued.)

**Western Electric Column Fan, 110 Volts.**

Height of Blades from floor, 7 ft. 4 in.

List No.

List Price.
Each.

- M-37, Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 110 volts, for constant potential incandescent circuits up to 125 volts, self-oiling bearings, polished brass finish, 60-inch blades **60.00**
- This Fan will be arranged for chandelier lights under the blades when so desired.

Western Electric Column Fan, 220 Volts.

Height of Blades from floor, 7 ft. 4 in.

- MM-38, Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 220 volts for constant potential incandescent circuits up to 240 volts, self-oiling bearings, polished brass finish, 60-inch blades **67.50**
- This Fan will be arranged for chandelier lights under the blades when so desired.

Western Electric Column Fan, 500 Volts.

Height of Blades from floor, 7 ft. 4 in.

- MMM-39, Western Electric Column Fan, with regulating switch, giving two speeds, viz.: 150 and 75 revolutions per minute, at 500 volts, for constant potential incandescent circuits up to 550 volts, self-oiling bearings, polished brass finish, 60-inch blades **80.00**
- This Fan will be arranged for chandelier lights under the blades when so desired.

Special prices quoted on Column Fans with two, three or more brackets arranged for incandescent lights.

We furnish Column Fans with round mahogany table around standard, for restaurants.

In ordering give List No. and Voltage.

Direct Current Fan Motor—(Continued.)

Prices of Parts of Western Electric Fan Motors.

12-Inch Fans.

List No.		List Price, Each.
F-17.	12-inch Brass Fan, polished.....	\$2.50
F-18.	12-inch Brass Fan, nickel-plated.....	2.50
F-19.	12-inch Black Enameled Fan,.....	2.50

12-Inch Guards.

F-20.	12-inch Black Enameled Guard.....	3.00
F-21.	12-inch Brass Guard, polished.....	3.00
F-22.	12-inch Brass Guard, nickel-plated.....	3.00

16-Inch Fans.

F-23.	16-inch Brass Fan, polished.....	3.00
A-24.	16-inch Brass Fan, nickel-plated.....	3.00
A-25.	16-inch Black Enameled Fan.....	3.00

16-Inch Guards.

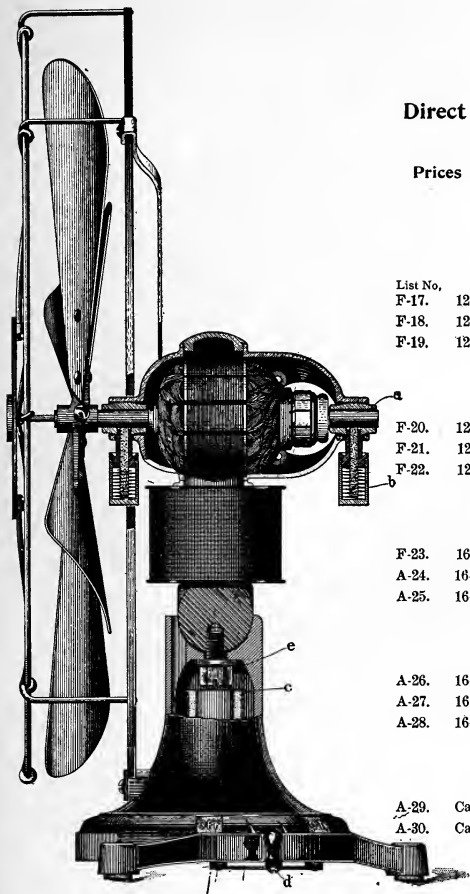
A-26.	16-inch Black Enameled Guard.....	3.25
A-27.	16-inch Brass Guard, polished.....	3.25
A-28.	16-inch Brass Guard, nickel-plated.....	3.25

Carbon Brushes.

A-29.	Carbon Brushes for 1-16 H. P. Motor, per pair.....	.10
A-30.	Carbon Brushes for 1-10 H. P. Motor, per pair.....	.10

Armatures.

A-31.	Armatures for 1-10 H. P. Motor, 110 volts.....	15.00
AA-32.	Armatures for 1-10 H. P. Motor, 220 volts.....	19.00
AAA-33.	Armatures for 1-10 H. P. Motor, 500 volts.....	23.00
F-34.	Armatures for 1-16 H. P. Motor, 110 volts.....	10.00



Parts of Western Electric Desk Fan Motors—(Continued.)

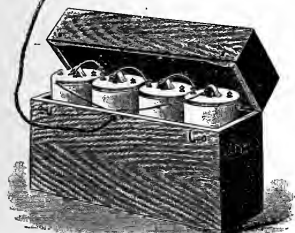
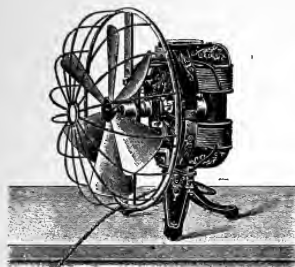
List No.		List Price.
F-54.	12-inch Rheostat for 110 volts.....	\$1.60
F-55.	16 " " " 110 "	1.60
F-56.	16 " " " 220 "	1.60
F-57.	16 " " " 550 "	1.60
F-58.	12 " Switch Base, 110 " .....	.90
F-59.	16 " " " 110 " .....	.90
F-60.	16 " " " 220 " .....	.90
F-61.	16 " " " 550 " .....	.90
F-62.	Oil Cup Complete, .....	.50
F-63.	" " Spring, .....	.10
F-64.	" " Wick, .....	.05
F-65.	Self-aligning Journal, .....	.60

Parts of Western Electric Ceiling Fan Motors.

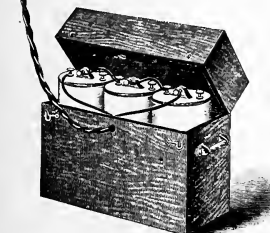
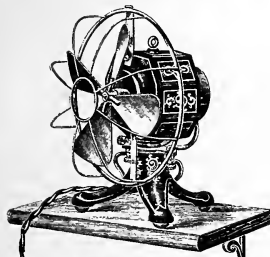
C-66.	110 volt Armature,	10.80
CC-67.	220 " "	14.80
CCC-68.	550 " "	20.00
C-69.	110 " Field Coil, (Two Sections).....	7.70
(Each Field Coil is made up of two sections.)		
CC-70.	220 volt Field Coil,	9.25
CCC-71.	550 " " "	11.70
C-72.	110 " Rheostat,	1.60
CC-73.	220 " "	1.60
CCC-74.	550 " "	1.60
C-75.	Carbon Brushes for 110, 220 and 550 volts.....	.10
C-76.	45 degree Ball joint for Chandelier attachment.....	.35
C-77.	Switch handle, .....	.12
C-78.	Blades per pair,	1.60
Note: (Always order blades in pairs as they have to be balanced in weight to prevent swaying.)		
C-79.	Oil Cups, complete, .....	.50
C-80.	Oil Cup Springs, .....	.10
C-81.	Oil Cup Wicks, .....	.05
C-82.	Self-aligning Journal, .....	.60

Direct Current Fan Motor—(Continued.)

Battery Fan Motor, No. 1.



No. 2820.
No. 1 Battery Fan Motor.



No. 2828.
No. 2 Battery Fan Motor.

List No.	List Price, Each.
2820	Outfit complete with charge to run 125 hours.....\$25.00
	Consisting of Edison battery motor with 9 inch Fan and Guard, battery cords, four Edison Lalande cells, type S, porcelain jars, in polished oak box 25 inches long, 8 inches wide, 15 inches high.
2821	Battery motor with 9-inch Fan and Guard.....12.00
	The motor with fan occupies a space 10 x 12 inches. It is absolutely noiseless.
2822	Flexible battery cord connecting cord to battery.....1.00
2823	Complete renewals for 4 cells, type S.....4.76
2824	Zinc plates ......21
2825	Copper oxide plates......25
2826	Caustic potash per can of 8 sticks......96
2827	Heavy paraffine oil, per bottle ......21

Iron Clad Fan Motor, No. 2.

2828	Outfit complete with charge to run motor 150 hours. . 17.50
	Consisting of iron clad motor with 7-inch Fan and Guard, battery, cords, 3 Edison Lalande cells, porcelain jars, type S in polished oak boxes 18 inches long, 8 inches wide, 15 inches deep.
2829	Edison iron clad battery fan motor with 7-inch Fan and Guard. It is noiseless, has self-oiling bearings, and is entirely enclosed in iron clad case, being provided with glass window at rear for regulation of brushes.....8.50
	When ordering renewals for this outfit always state for type S.
2830	Complete renewals for 3 cells, type S.....3.60
2831	Zinc plates......21
2832	Copper oxide plates......25
2833	Caustic potash per can of 6 sticks......74
2834	Heavy paraffine oil, per bottle......12

Alternating Current Desk Fan Motors.

Our Alternating Current Fan Motors are made for either 60 cycles or 125 cycles.

The Motors have a speed regulating device consisting of an inductive resistance operated by a three-point snap switch capable of giving full speed and half speed, the third position of the switch cutting the motor out of circuit. This controlling switch will be recognized as a great convenience, as it not only permits a change of speed but allows the motor to be wired directly to a circuit without the introduction of a lamp socket and plug connection.

The field core is a ring of iron punchings upon the inwardly projecting teeth of which the field coils are placed. The armature has no insulated wire, but consists of the customary laminated core through which, near the periphery, bare copper rods are run, their ends being riveted to copper disks at the ends of the core. As the rotation is produced by inductive action, no commutator or brushes are required. This permits the armature core to overhang the bearing to such a degree that, together with the fan, a balance is effected in the single bearing of the motor. This bearing is long and is provided with a self-oiling device so that it does not heat. By this method of lubrication the flying of oil is prevented.

The 12-inch motor is supported on trunnions which allow a vertical angular adjustment.

These motors are made in three styles:

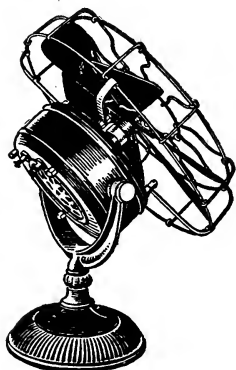
10-inch diameter, with regulating switch, rigid base.

12-inch diameter, with regulating switch, with trunnion.

14-inch diameter, with regulating switch, rigid base.



10-inch and 14-inch Motor with rigid base.



12-inch Motor with adjustable base, or Trunnion.

For 125 Cycles.

List No	Description.	List Price.
G-40.	Alternating Current Fan Motor, 104 volts, 10-inch Fan, rigid base.....	\$25.00
GG-41.	Alternating Current Fan Motor, 52 volts, 10 inch Fan, rigid base.....	25.00
G-43.	Alternating Current Fan Motor, 104 volts, 12-inch Fan, adjustable base.....	30.00
GG-44.	Alternating Current Fan Motor, 52 volts, 12-inch Fan, adjustable base.....	30.00
G-83.	Alternating Current Fan Motor, 104 volts, 14-inch Fan, rigid base	35.00
GG-84.	Alternating Current Fan Motor, 52 volts, 14-inch Fan, rigid base.....	35.00

For 60 Cycles.

G-45.	Alternating Current Fan Motor, 104 volts, 10-inch Fan.....	25.00
GG-46.	Alternating Current Fan Motor, 52 volts, 10-inch Fan.....	25.00
G-48.	Alternating Current Fan Motor, 104 volts, 12-inch Fan.....	30.00
GG-49.	Alternating Current Fan Motor, 52 volts, 12 inch Fan.....	30.00
G-85.	Alternating Current Fan Motor, 104 volts, 14-inch Fan, rigid base..	35.00
GG-86.	Alternating Current Fan Motor, 52 volts, 14-inch Fan, rigid base.....	35.00

Tuerk Alternating Current Ceiling Fan Motor.

It is operated by induction and has no brushes or commutator, all bearings self-oiling, the Motor is supplied with a starting and stopping switch, and a blade adjuster, which admits of the blades being changed to any angle without stopping motor or changing speed. It is necessary to oil the motor only once a year

The motors are furnished in the following finishes: bronze, nickel, bower-barff, polished brass and white and gold.

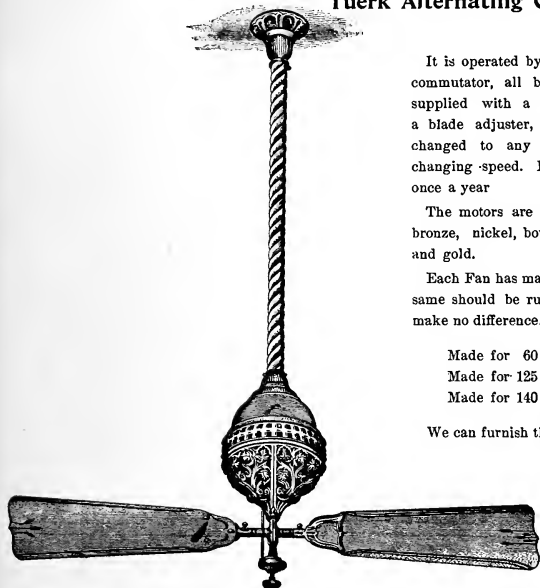
Each Fan has marked on a plate the voltage on which same should be run; a slight variation from this will make no difference.

Made for 60 cycles, 52 and 104 volts.

Made for 125 cycles, 52 and 104 volts.

Made for 140 cycles, 52 and 104 volts.

We can furnish them up to 120 volts when required.



T-50.	Bronze.....	\$50.00
T-51.	Bower-Barff.....	50.00
T-52.	Nickel.....	54.00
T-53.	Brass	60.00
	For white and gold finish, additional, net.....	2.50

For ceilings over 14 feet \$1.00 per foot extra will be charged. Without switch, \$2.00 less, net.

When ordering Alternating Ceiling Fans state number of cycles or number of alternations and give voltage. In case you can not determine the number of cycles or alternations state what systems are used, viz. General Electric, Westinghouse, Stanley or Fort Wayne.

In ordering give List Number and Voltage.

Combined Exhaust Fans and Lundell Motors.

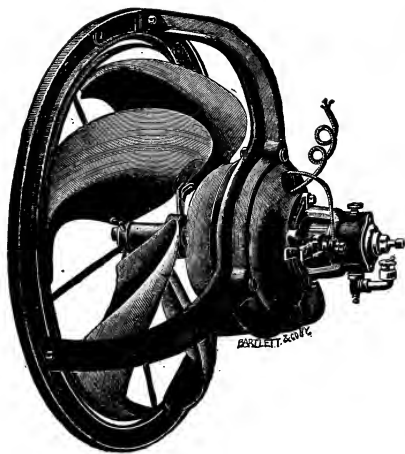
Direct Connected, Noiseless, Efficient, Variable Speeds.

The design of the Lundell Motor lends itself most readily in application to exhaust fan work. The motor, being iron clad, is almost wholly inclosed and easily permits of connection by radial arms, spider, or bolts to any of the many forms of exhaust fans now to be found in the market.

It has been the practice of manufacturers of exhaust fans to supply a bearing in front as well as in the back of the fan, but in our application we carry a shaft, which may be horizontal or vertical, in two bearings in the motor frame itself, not supporting the shaft in any sense from the fan ring. This course insures perfect alignment and noiseless running.

All exhaust fan outfits are made with horizontal shafts, unless otherwise ordered, and are invariably made so that the direction of the flow of air is from the motor toward the fan. If it is desired to operate the fan with a vertical shaft or to drive the air through the fan and over the motor, it should be specifically stated in the order. With all standard horizontal shaft fans, an adjustable thrust bearing is provided. When the flow of air is desired contrary to the standard direction, a button and thrust bearing is placed at the rear of the motor.

In all horizontal shaft fans, lubrication is effected by oil. In vertical shaft fans, lubrication is effected in an oil receptacle enclosing a step at the bottom of the shaft, and a graphite or other self-lubricating bearing (never a grease cup or oil bearing) at the upper end of the shaft. Particular care should be taken to see that the white line marked upon the motor be in a vertical position when the fan outfit is erected.



Catalogue No.	Size of fan, Inches.	Speed	Motor Horse-Power.	Amperes	Voltage.	Price.
990	18	1000	$\frac{1}{2}$	1.5	115	\$220.00
992	24	775	$\frac{1}{2}$	3.	115	300.00
994	30	650	1	5.	115	360.00
996	36	600	2	10.	115	490.00
998	42	550	4	20.	115	650.00
1000	48	500	5	25.	115	750.00
1002	60	400	10	30.	115	1200.00
1004	72	350	15	50.	115	1500.00

We attach our Lundell Motors to any of the standard makes of Ventilating or Exhaust Fans. A list of prices and the charge we make for attaching is given herewith.

Horse-Power.	Price of Motor and attaching.	Size of Fan, Inches.	Price for attaching only.
$\frac{1}{2}$	132.00	18	\$42.00
$\frac{1}{2}$	180.00	24	50.00
1	220.00	30	60.00
2	320.00	36	70.00
4	505.00	42	80.00
5	565.00	48	90.00
10	820.00	60	120.00
15	1100.00	72	200.00

Combined Exhaust Fans and Lundell Motors— (Continued.)

Motors are wound for 115, 230 and 500-volt circuits. $\frac{1}{2}$, 1, and 1 H.-P. Motors, wound for 500-volt circuits, \$5.00 net extra.

Purchaser will understand that, for example, a 2 horse-power motor whose standard speed is 1000 revolutions per minute is a 1-horse-power motor at 500 revolutions per minute, or in other words the power a motor exerts is directly proportional to its speed.

The prices on preceding page are for disc fans only. Centrifugal fans, prices on application.

Motors for direct-connected outfits are made special, and are different from the standard power motors, having extra length of shaft, extra heavy bearing next to fan, thrust bearing, etc.

*Customers to furnish fan and ring or frame.

Direct Connected Electric Blowers and Exhausters.

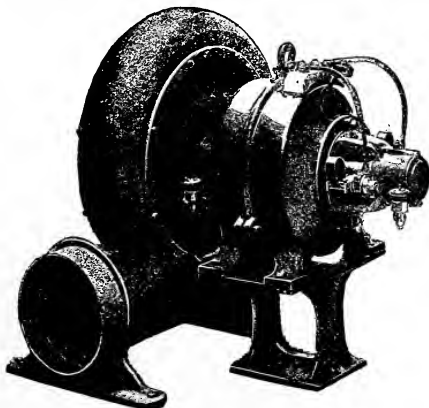


Table for Direct Connected Blowers.

SIZE NUMBERS					Pressure Limits	Sizes of Motors (These Vary According to Pressure of Air Required.) Horse-power.
B. F. Sturtevant & Co. "Monogram."	Buffalo Forge Co. "B" Volume	Boston Blower Co.	American Blower Co. "Dixie"	J. F. Polsey "Exeter."		
00				AA	From 0 to 5 ounces.	$\frac{1}{2}$ - $\frac{1}{2}$
0	1B			A		$\frac{1}{2}$ - 1
1	2B	24		B		$\frac{1}{2}$ - 1
2	3B	27		C		$\frac{1}{2}$ - 2
3	4B	30	14			$\frac{1}{2}$ - 4
4	5B	35	18	D and E		1 - 5
5	6B	40	22	F		1 - 7 $\frac{1}{2}$
6	7B	45	26	G		2 - 10
7	8B	53	30			3 - 15
8	9B	63	34	H and I		7 $\frac{1}{2}$ - 15
9	10B		38	J		10 - 20
10	11B		42			20 - 25
36						25 - 35
37						- 35

Prices upon application.

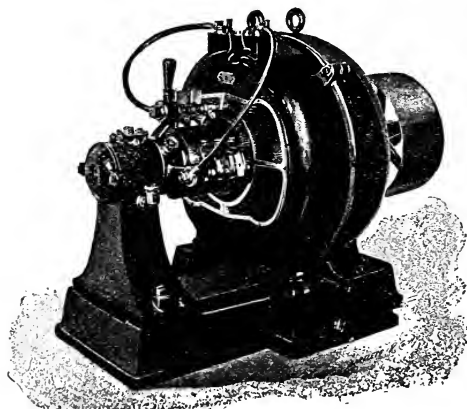
Lundell Motors and Dynamos.

Data and Prices.

Guaranteed Brake H. P.	Watts.	Amperes at 115 Volts.	Voltage	Approxi- mate Speed	PULLEY		List
					Diam	Face	
$\frac{1}{8}$	.....	.....	4 Battery	1300	1	V	\$ 28 00
$\frac{1}{4}$	.....	.....	115	1050	1	V	28 00
$\frac{1}{2}$	.....	.....	8 Battery	1200	1 $\frac{1}{2}$	V	32 00
$\frac{3}{4}$	.....	.....	115	1200	1 $\frac{1}{2}$	V	40 00
1	230	2.2	*115, 230, 500	1640	2 $\frac{1}{2}$	1 $\frac{1}{2}$	90 00
2	460	4.3	*115, 230, 500	1485	3 $\frac{1}{2}$	2	130 00
3	1000	8.7	*115, 230, 500	1225	4 $\frac{1}{2}$	2 $\frac{1}{2}$	160 00
4	1920	16.7	115, 230, 500	1040	6	3 $\frac{3}{4}$	250.00
5	2750	23.9	115, 230, 500	1480	6	3 $\frac{3}{4}$	350.00
6	3675	32.	115, 230, 500	1150	7	3 $\frac{3}{4}$	425 00
** 7	4525	39.4	115, 230, 500	1073	8	4 $\frac{1}{2}$	473.00
** 8	6650	57.8	115, 230, 500	1060	9	5	600.00
** 10	8750	76.1	115, 230, 500	878	11	6	700.00
** 15	12700	118.7	115, 230, 500	785	13	6 $\frac{1}{2}$	900.00
** 20	16700	142.2	115, 230, 500	725	15	7	1100.00
** 25	20650	179.5	115, 230, 500	770	17	8	1300 00
** 35	28500	248.7	115, 230, 500	750	22	10	1800 00

* $\frac{1}{2}$, $\frac{3}{4}$ and 1 H.-P. motors, wound for 500-volt circuits, \$5.00 net, extra.

**4-Pole Type, all smaller sizes 2-Pole Type.



NOTICE.

Prices subject to change without notice
Boxing and cartage charged at cost.

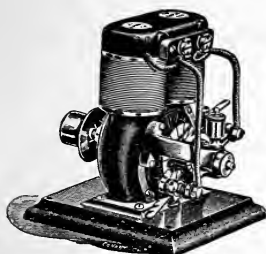
Above prices include fire-proof starting boxes.

Adjustable base, for tightening belt when re-
quired, will be furnished with 2 H. P. size and
over without extra charge.

Machines are also wound for slower speeds with
proportionately smaller outputs, and for any vol-
tage between 50 and 150 volts.

Regulating Rheostats capable of 50 per cent
reduction in speed furnished at a special quotation

Plating Dynamos.



No. 1 Plating Dynamo.

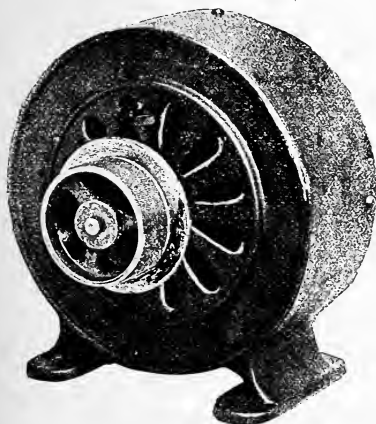
Price List.

	Silver per hour	Nickel.	H. P. required at full load.	Pulley	Speed, Approximate.	List Price.
No. 1	2 oz.	36 gal.	$\frac{1}{2}$	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ in.	2,500	\$ 40.00
No. 3	6 "	100 "	$\frac{1}{3}$	2 x 1 $\frac{1}{2}$ "	2,000	95.00
No. 4	12 "	200 "	$\frac{1}{2}$	3 x 2 "	1,750	140.00
No. 5	25 "	400 "	1	4 x 2 "	1,900	190.00
No. 6	53 "	825 "	2	5 x 3 "	1,750	250.00
No. 7	110 "	1,700 "	4	7 x 4 "	1,600	390.00
No. 8	160 "	3,600 "	5	8 x 5 "	1,400	425.00

With No. 6 and larger sizes are sent sub-base, sliding rails and belt-tightening gear.

Rheostat included in above prices.

Alternating Current Power Motor.



Alternating Current Power Motor.

This Motor is non-synchronous, and runs at a practically constant speed under any change of load up to its full capacity.

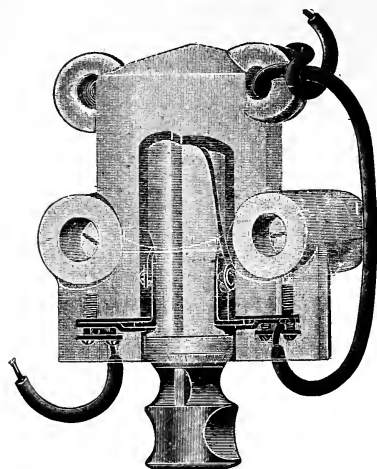
The armature and field are finely laminated. The winding on the armature consists of copper bars, which are inserted in holes near the periphery, and are connected at the ends by massive copper rings, thus furnishing a closed circuit winding of great capacity. The current in these conductors is produced by induction, hence no collector, commutator, nor connection with the outside circuit is needed. The winding of the fields and the arrangement of the iron in the pole pieces produces a starting torque equal to one-half that of the machine under full load.

In starting the motor the button on the back of the motor is pushed in for a few seconds until the armature comes up to speed, when it is released. The motor requires no further attention while running.

List Price.

$\frac{1}{2}$ H. P., 52 to 104 volts, with grooved or flat pulley....	\$40.00
$\frac{1}{2}$ H. P., 52 to 104 volts, with grooved or flat pulley.....	60.00

These motors are built for 52 or 104 volts, high or low frequency. In ordering be particular to state voltage and number of periods or cycles per second. Low frequency machines are only made to order.



P. & S. All China Junction Box and Motor Cut-Out.

The illustration shows a form of motor cut-out and junction box that will meet the requirements of the average motor installation.

The fuse chamber is entirely surrounded by porcelain and is completely divided by means of projections on the plug, this gives plenty of room for the fuse.

A five (5) inch fuse is required in this cut-out.

The plug is held in the box by means of the **Knife Contacts** shown in the illustration and cannot drop out.

The connections will take a wire from No. 4 B & S to the smallest size.

This device should not be used on motors taking over 60 amperes of current on normal loads.

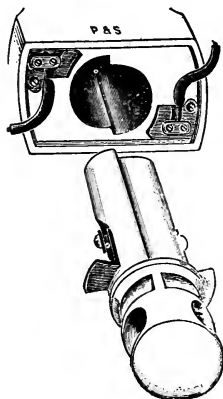
It can be used for motors,

On 110 volts up to	8 H. P.
On 220 " " "	15 "
On 500 " " "	25 "

For larger size motors the Bryant High Tension Service Switch and fuse box combined should be used.

On each corner of the P. & S. junction box is an eye, to these eyes service wires may be attached thus saving the expense of an extra insulator.

In addition to its use as a motor cut-out it may be used as a junction box for transformers, as a telephone cut-out and for outside work on service lines. It may be fastened to its supports by lag screws or wood screws.



Code Word.	List No.	P. & S. No.	Each.
Accredit	25488	139 White	\$1.00
Accredation	25489	139½ Black	.85

Furnished in black or white.

Two lag screws are furnished with each cut-out.

TOOLS.



No. 15005.

Carrying Hooks.

Code Word.	List No.	List Price.
<i>Merritt</i>	15005	Carrying hook, with swivel bearing, each \$ 5.00



No. 15010.

<i>Maro</i>	15010	Extra heavy, 7-foot handle.....	4.50
<i>Marquan</i>	15011	Heavy, 6-foot handle.....	4.00
<i>Marquette</i>	15012	Medium, 5-foot handle.....	3.50

These hooks are made with particular regard to construction work. They are not malleable iron. The swivel bolt is forged wrought iron; hooks steel, with special long prods. The handles are made especially for us.



No. 15007.

Cant Hooks.

<i>Merritt</i>	15007	Cant hook, 4 feet long, each.....	2.50
----------------	--------------	-----------------------------------	-------------



No. 14910

Digging Shovels.

<i>Meshoppen</i>	14910	Pole hole shovels, regular, 7-foot handle, each.....	1.25
<i>Metumora</i>	14911	Pole hole shovels, regular, 8-foot handle, each.....	1.40
<i>Metulf</i>	14912	Pole-hole shovels, heavy, extra long straps, 7-foot handle, each.....	1.50
<i>Metropolitan</i>	14913	Pole hole shovels, heavy, extra long straps, 8-foot handle, each.....	1.60
<i>Meyers</i>	14915	Shovel handles, 7-foot, per dozen.....	5.50
<i>Minnä</i>	14916	Shovel handles, 8-foot, per dozen.....	6.00



No. 3780.

Digging Spoons.

Code Word.	List No.	List Price.
<i>Beeswax</i>	3780	Pole hole spoons, regular, 7-foot handle, each..... \$ 1.60
<i>Beetle</i>	3781	Pole hole spoons, regular, 8-foot handle, each..... 1.75
<i>Befull</i>	3782	Pole hole spoons, heavy, 7-foot handle, each..With extra long straps..... 1.25
<i>Befit</i>	3783	Pole hole spoons, heavy, 8-foot handle, each..With extra long straps. 2.00
<i>Micanopy</i>	14917	Spoon handles 7-foot, per dozen..... 7.50
<i>Michiganme</i>	14918	Spoon handles, 8-foot, per dozen..... 7.50



No. 3869.

Grading Shovels.

<i>Binocular</i>	3869	Round point, per dozen..... 9.00
------------------	------	----------------------------------



No. 3870.

<i>Binocular</i>	3870	Square point, per dozen..... 9.00
------------------	------	-----------------------------------



No. 3622.

Eureka Post Hole Diggers.

<i>Anchorage</i>	3622	Each..... 2.50
------------------	------	----------------



No. 14920.

Vaughan's Patent Augers.

<i>Middleboro</i>	14920	10-inch, each..... 3.50
<i>Middleburg</i>	14921	12 " " 4.00
<i>Middlefield</i>	14923	14 " " 4.50



No. 3689.

Digging Bars.

<i>Behaded</i>	3689½	Digging bar, round, 1½ inches diameter, 8 feet long, best steel, each..... 2.50
<i>Middleport</i>	3690½	Digging bar, octagon, 1½ inches diameter, 8 feet long, best steel, each..... 2.50

Crow Bars.



No. 3687.

Code Word:	List No.	List Price.
<i>Behavior</i>	3687 $\frac{1}{2}$ Crow bars, 4 feet long.....	\$ 2.50
<i>Behnd</i>	3688 " 6 " "	3.00

Tamping Bars.



No. 1108

<i>Crecy</i>	1108 Tamping bar, wood, 7 ft. long	2.25
<i>Creasing</i>	3075 Tamping bar, iron, 7 ft. long	2.00
<i>Cricket</i>	3078 Combined digging and tamping bar, iron	2.50

Raising Forks.



No. 14925.

<i>Millunville</i>	14925 Length, 12 feet	2.20
<i>Millanfield</i>	14926 " 14 "	2.30
<i>Millerville</i>	14927 " 16 "	2.40

Pike Poles.



No. 14928.

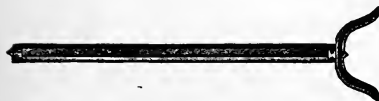
<i>Millerton</i>	14928 Pike pole, length, 12 feet ...	1.20
<i>Millenburg</i>	14929 " " 14 " ...	1.35
<i>Millar</i>	14930 " " 16 " ...	1.50
<i>Millervburg</i>	14931 " " 18 " ...	1.60



No. 14932.

Pole Supporters.

<i>Millerfield</i>	14932 Jenny pole supporter, height 6 feet.....	8.00
<i>Millerean</i>	14933 Jenny pole supporter, height 7 $\frac{1}{2}$ feet.....	8.50



No. 3693.

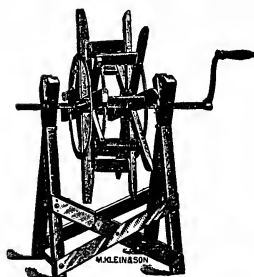
<i>Benignant</i>	3693 $\frac{1}{2}$ "Mule" pattern, height 4 $\frac{1}{2}$ ft.	7.00
<i>Benumb</i>	3694 $\frac{1}{2}$ " " " 6 " "	7.00
<i>Benumbed</i>	3695 $\frac{1}{2}$ " " " 7 $\frac{1}{2}$ " "	7.00



No. 2543.

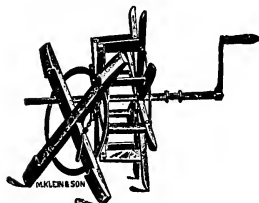
Reels.

Code Word	List No.	List Price.
<i>Constricted</i>	2543 Take-up reel, each.....	\$ 15.00

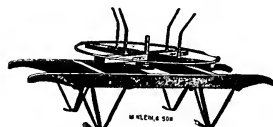


No. 15015.

<i>Marvel</i>	15015 Improved take-up reel, each	17.50
---------------	--	--------------



The improvement in this reel consists of a separate guard piece (shown in cut below) which is slipped on shaft and fastened with a flat key. To empty the reel, lift the spool out of buck, draw the key, and turn reel on end, the guard piece and coil will then come off together. This arrangement does away with the loose toggle guard irons of the old style reel and is much handier.



No. 2545.

<i>Constrictive</i>	2545 Pay-out and take-up reel, each.....	16.50
---------------------	---	--------------



No. 2544.

<i>Constriction</i>	2544 Pay-out reel, each.....	7.50
---------------------	-------------------------------------	-------------

<i>Categorical</i>	2546 Reel straps, per set	5.00
--------------------	--	-------------



Nos. 14935 and 1109.

Vises—Stubs .

Code Word.	List No.		List Price. Each.
<i>Milligan</i>	14935	Stubs, 5½ inch.....	\$ 2.25
<i>Millington</i>	14936	" 6 "	3.00
<i>Millmont</i>	14937	" 5½ " copper face.....	3.50
<i>Millstadt</i>	14938	" 6 " " "	4.50



No. 14940.

Vises—Vom Cleff's.

<i>Bilking</i>	2547	5½ inch.....	1.75
<i>Billbrook</i>	2548	6 "	2.00
<i>Billet</i>	2549	5½ " copper face.....	2.50
<i>Millville</i>	2538	6 " " "	3.00
<i>Mitroy</i>	1109	Vise straps.....	.75

"Come-Along" Eccentric.

<i>Milton</i>	14940	For No. 9 wire.....	.60
<i>Millwood</i>	14941	For No. 3 wire.....	1.25
<i>Mito</i>	14942	For No. 000 wire.....	1.50



No. 3705.

Klein's Plain Eccentric.

<i>Beauty</i>	3705	Brass.....	1.25
<i>Beautyspot</i>	3706	Steel.....	1.10



No. 3494.

Haven's Clamp.

<i>Blundering</i>	3494	Small size.....	1.75
<i>Blunt</i>	3495	Large size.....	3.50



No. 14945.

Code Word:

*Milipitus**Milesbury**Acosmism*

List No.

14945

Large size. for Trolley wire.....

14946

Small " " No. 6 and smaller

25594

Extra large grip.

List Price.
Each.

\$ 4.00

2.50

6.00

Buffalo Grip, with pulley, 50 cents list additional.

The Buffalo Grip.



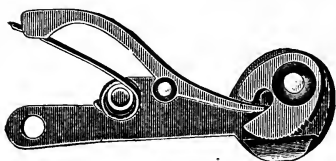
No. 15018.

Parallel Screw Clamp.

For Trolley Wire.

Martinsburg 15018

2.25

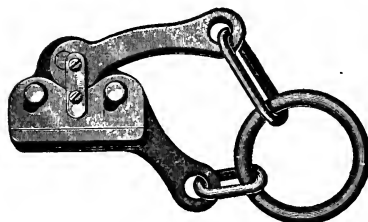


No. 15020.

Ferdinand Wire Stretcher.

Martinsville 15020

1.00



No. 106.

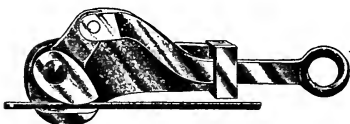
Fulford's Eccentric.

Discerned

106

4.00

Will take No. 3 B. & S. bare wire.



No. 15021.

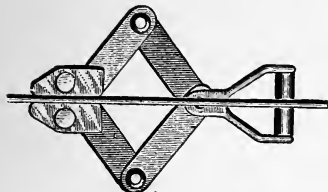
Landee's Clamp.

Marville

15021

1.50

The Parallel Wire Stretcher.



No. 2265.

No Teeth. Direct Pull. All Steel.

Code Word.	List No.	List Price.
<i>Capna</i>	2265	Fine tool steel, per dozen..... 36.00
<i>Captufed</i>	2542	Cast steel, arranged for hooks; suitable for electric light and trolley wires; carries any-size up to No. 000, inclusive, per dozen..... 42.00



No. 2525.

Klein's Compound Eccentrics.

Style A.

<i>Milford</i>	2525	Klein's Compound Eccentric clamp, brass, each..... 1.70
<i>Milard</i>	2526	Iron, large size, each..... 2.50

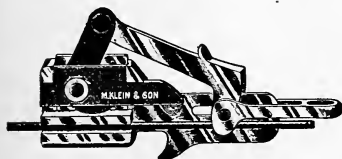


No. 2524.

Style B.

For hard drawn copper wire.
As both the upper and lower
bearings of this clamp are made
of brass, there is no danger of
injuring the wire.

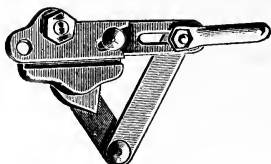
<i>Milboro</i>	2524	Each..... 2.50
----------------	------	----------------



No. 15025.

Style C.

<i>Maryville</i>	15025	Light, for No. 4 B. & S. and finer, each..... 3.50
<i>Marquota</i>	15026	Heavy, for No. 0 and finer, each 5.00



No. 25088.

The Westfield Grip.

Carries any size Wire up to No. 4.

Code Word.	List No	Each	List Price.
<i>Song</i>	25088	.....	\$ 2.50

**Improved Parallel Wire Stretcher.**

<i>Songful</i>	25089	No. 0	Telephone size, small size, each.....	3.00
<i>Songish</i>	25090	No. 1	Telegraph, Electric Light and Trolley Wire, each.....	3.50



No. 25091.

Cutter Lag Screw Wrench.

Made in two sizes, for $\frac{3}{8}$ inch and for $\frac{1}{2}$ inch lag screws. Is especially handy for putting up windlasses, pole pulleys, brackets, and the like.

<i>Songless</i>	25091	For $\frac{3}{8}$ inch Lag Screws, each.....	.30
<i>Songster</i>	25092	For $\frac{1}{2}$ " " " each.....	.30



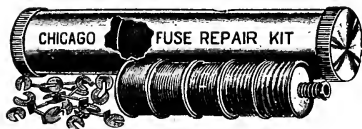
No. 25093.

The Electric Spud.

The handles being made of crucible steel tubing, (especially for this purpose) and are as strong as a solid steel bar. The blades are forged from best open hearth crucible mining tool steel and tempered.

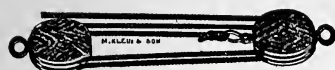
These Spuds are provided with tamper on upper end for tamping ground around pole, thus combining a Spud and tamping bar in one tool. Length 9 feet.

<i>Songstress</i>	25093	Each.....	3.00
-------------------	-------	-----------	------

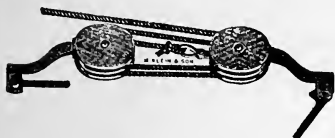
**Chicago Fuse Repair Kit.**

Contains five sizes of fuse wire, also a good assortment of fuse links.

<i>Acquirer</i>	25598	Kit, complete.....	\$1.00
-----------------	-------	--------------------	--------



No. 15030.



No. 15032.



No. 15035.



No. 6810.



No. 6818.

Pulley Blocks with Eye

For Attaching Separate Clamp.

Code Word.	List No.	List Price.
<i>Maxville</i>	15030 4-inch, per pair.....	\$ 2.50
<i>Maxima</i>	15031 5 " "	4.00

Pulley Blocks.

With Eccentric Attached.

<i>Muselon</i>	15032 4-inch, per pair.....	4.25
<i>Matamoros</i>	15033 5-inch, extra heavy, per pair.....	6.50

Pulley Blocks.

With Eccentric Attached.

<i>Matfield</i>	15035 2 1/4-inch malleable galvanized iron. per pair.....	3.50
-----------------	--	------

Pulley Blocks.

GALVANIZED IRON, WITH LOOSE HOOKS.

Single Iron Sheaves.

<i>Dangerous</i>	6807 Diameter of rope, 1/2 inch, per dozen..	7.20
<i>Dangling</i>	6808 " " 3/8 " " ..	10.80
<i>Daniel</i>	6809 " " 1/4 " " ..	15.00

Double Iron Sheaves.

<i>Dandy</i>	6810 Diameter of rope, 1/2 inch, per dozen..	12.00
<i>Dandle</i>	6812 " " 3/8 " " ..	18.00
<i>Danger</i>	6817 " " 1/4 " " ..	24.00

GALVANIZED IRON, WITH SWIVEL EYES.

Single Iron Sheaves.

<i>Dapper</i>	6818 Diameter of rope, 1/2 inch, per dozen..	7.50
<i>Dapple</i>	6819 " " 3/8 " " ..	1.00
<i>Dare</i>	6820 " " 1/8 " " ..	1.75
<i>Daring</i>	6821 " " 3/8 " " ..	2.75
<i>Darken</i>	6822 " " 1/2 " " ..	4.00

Double Iron Sheaves.

<i>Darkness</i>	6823 Diameter of rope, 1/2 inch, per dozen..	1.00
<i>Darting</i>	6824 " " 3/8 " " ..	1.50
<i>Dart</i>	6825 " " 1/8 " " ..	2.25
<i>Darted</i>	8788 " " 3/8 " " ..	3.50
<i>Dash</i>	8789 " " 1/2 " " ..	5.00



No. 3663.



No. 15040.



No. 15045.



No. 15050.



No. 15052.



No. 15055.

Stubbs' Side Cutting Pliers.

Code Word.	List No.		List Price.
<i>Anarchist</i>	3663	4 inch, per doz.	\$10.00
<i>Anarchy</i>	3664	4½ " "	10.00
<i>Anatomist</i>	3665	5 " "	10.00
<i>Anatomy</i>	3667	6 " "	11.00
<i>Anatron</i>	3668	7 " "	18.00
<i>Ancestor</i>	3669	8 " "	24.00
<i>Milbrook</i>	2523	9 " "	30.00

Nickel plated, 30c. per pair extra, net.

Solid Steel Pliers.

With Raised Cutter.

<i>Matapan</i>	15040	5-inch, per dozen	14.50
<i>Matawa</i>	15041	6 " "	15.50
<i>Matawan</i>	15042	7 " "	19.50
<i>Mattison</i>	15043	8 " "	22.50

Safety Pliers.

Patent Insulation.

<i>Mattoon</i>	15045	6-inch, per dozen	25.00
<i>Maurice</i>	15046	7 " "	33.00
<i>Maxwell</i>	15047	8 " "	40.00

Tested to insulate against a current of 2,500 volts.

The Universal Pliers.

<i>Mayfield</i>	15050	8-inch, per pair	1.50
-----------------	-------	------------------	------

Fry's Patent Lineman's Splicing Pliers.

<i>Museppa</i>	15052	8-inch, per pair	2.00
----------------	-------	------------------	------

Patent Pliers.

<i>Musomanee</i>	15055	4½-inch, per dozen	4.20
<i>Mayford</i>	15056	6 " "	4.80
<i>Mazon</i>	15057	8 " "	6.00
<i>Meadville</i>	15058	10 " "	8.00

Vom Cleff's All Steel Pliers.



No. 3794.

Side Cutting.

Code Word.	List No.		List Price.
<i>Belched</i>	3794	4 Inch, per dozen	\$8.00
<i>Belching</i>	3795	4½ " "	8.00
<i>Belfry</i>	3796	5 " "	8.00
<i>Belgian</i>	3797	5½ " "	9.00
<i>Belle</i>	3798	6 " "	10.00
<i>Belied</i>	3799	6½ " "	12.00
<i>Belike</i>	3800	7 " "	14.00
<i>Belittle</i>	3801	8 " "	18.00
<i>Bellow</i>	3802	9 " "	22.30



No. 2835.

Flat, Long Nose.

<i>Coquettish</i>	2835	3 Inch, per dozen	4.20
<i>Coquetting</i>	2836	3½ " "	4.20
<i>Cora</i>	2837	4 " "	4.20
<i>Coral</i>	2838	4½ " "	4.20
<i>Coralite</i>	2839	5 " "	4.60
<i>Coralline</i>	2840	5½ " "	5.40
<i>Coralloid</i>	2841	6 " "	6.30



No. 2869.

Diagonal Cutting.

<i>Corant</i>	2869	3 Inch, per dozen	8.00
<i>Corcule</i>	2870	3½ " "	8.00
<i>Cord</i>	2871	4 " "	8.00
<i>Cordage</i>	2872	4½ " "	8.00
<i>Cordate</i>	2873	5 " "	8.00
<i>Corded</i>	2874	5½ " "	9.00
<i>Cordelia</i>	2875	6 " "	10.00
<i>Cordial</i>	2876	6½ " "	11.50
<i>Cordially</i>	2877	7 " "	14.00
<i>Cordon</i>	2878	8 " "	18.00

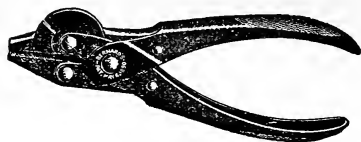


No. 2879.

Round, Long Nose.

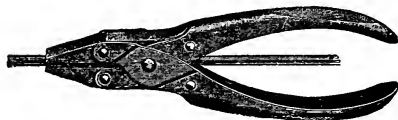
<i>Cordovan</i>	2879	3 Inch, per dozen	4.20
<i>Corduroy</i>	2880	3½ " "	4.20
<i>Cordvain</i>	2881	4 " "	4.20
<i>Corelation</i>	2882	4½ " "	4.20
<i>Corinne</i>	2883	5 " "	4.60
<i>Corinthian</i>	2884	5½ " "	5.40
<i>Cork</i>	2885	6 " "	6.20

Bernard's Combined Parallel and Cutting Pliers.



No. 3789.

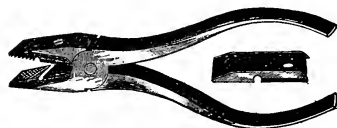
Code Word.	List No.	Length.	Will Cut.	Width between plying jaws when open.	List Price Per doz
<i>Beholder</i>	3789	4½ in.	No. 9 B. & S. Wire.	¼ in.	\$11.50
<i>Beholding</i>	3790	5½ "	No. 7 B. & S. Wire.	⅜ "	14.50
<i>Behoove</i>	3791	6½ "	No. 5 B. & S. Wire.	½ "	17.50
<i>Belabor</i>	3792	7½ "	No. 3 B. & S. Wire.	¾ "	24.00



No. 2688.

Bernard's Parallel Pliers.

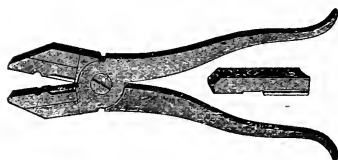
<i>Consummate</i>	2688	4½ inch.	7.00
<i>Consumption</i>	2689	5½ "	9.00
<i>Consumptive</i>	2690	6½ "	11.50
<i>Contact</i>	2691	7½ "	15.00



No. 15060.

Hall's Telegraph Pliers.

<i>Mechanizing</i>	15060	8 inch.	14.40
--------------------	-------	---------	-------



No. 15062

<i>Mecosta</i>	15062	8 inch.	21.60
----------------	-------	---------	-------



No. 15063.

Fixture Pliers.

<i>Mechan</i>	15063	6 inch.	9.00
---------------	-------	---------	------

Rubber Handles for Pliers.



No. 2680.

			Per Gross Pairs.
<i>Constrictor</i>	2680	5 inch.	17.00
<i>Constructura</i>	2681	6 "	23.00
<i>Consular</i>	2682	7 "	28.80
<i>Consulate</i>	2683	8 "	36.00

Splicing Clamps or Connectors.



No. 8632.

Code Word. List No. List Price.
Contagion 8632 For Nos. 2, 4, 6 and 8 wire..... \$ 2.00
 Per Pair



No. 8633.

Contagious 8633 For No. 6 and finer wire..... 2.00



No. 8634.

Contain 8634 For Nos. 4, 6, 8 and 9 wire..... 2.00



No. 8635.

Contained 8635 Copper jawed, for Hard drawn copper wire No. 8 and finer.... 3.00



No. 15065.

Mecede 15065 Combination No. 2 and McIntire connector..... 2.35



No. 15066.

Meteira 15066 Railroad, for Nos. 0, 2 and 4 wire 2.00



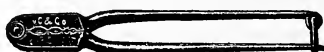
No. 15067

Medfield 15067 For McIntire joints..... 2.00



No. 15068.

Medford 15068 Seven inches long, for No. 9 to 16 wire..... 1.85



No. 15070



No. 15071.



No. 2673



No. 2674.



No. 2675.



No. 2676.



No. 2515.



No. 2517.

Vom Cleff Splicing Clamps.

Code Word.	List No.	List Price.
<i>Mediopole</i>	15070	4-Hole, per pair..... \$ 1.80

<i>Medione</i>	15071	2-Hole, per pair,..... 1.80
----------------	-------	-----------------------------

McIntire's Twisting Clamps.

<i>Effect</i>	2673	Compressing and cutting pliers, for No. 10 to No. 20 wire, per pair.....	2.00
---------------	------	--	------

<i>Effective</i>	2674	Twisting clamp for No. 8 to No. 16 wire, per set of 2 pair	3.50
------------------	------	--	------

<i>Effectual</i>	2675	Twisting clamp for No. 4, 5 and 6 wire, per set of 2 pair.....	4.50
------------------	------	--	------

<i>Effectd</i>	2676	Twisting clamp, for No. 00 to No. 6 wire, per set of 2 pair.....	8.00
----------------	------	--	------

Climbers.

<i>Milbury</i>	2515	Western pattern, per pair, no straps.....	2.00
----------------	------	---	------

<i>Mildale</i>	2516	Straps, per set of four.	1 00
----------------	------	--------------------------	------

<i>Millan</i>	2517	Eastern pattern, per pair, no straps.	3.00
---------------	------	---------------------------------------	------

<i>Mimico</i>	2518	Straps, per set of four.	1 00
---------------	------	--------------------------	------

Double Steel Splicing Wrench.

For Iron Wire or Heavy Copper Wires.

We keep in stock two sizes, one for 4 and 6 wire and one for 8 and 9 wire. These wrenches are accurately fitted for the respective wires and will make a tight, clean splice. We have made them for as large as 00 wire.



No. 15075.

Code Word.	List No.	List Price.
<i>Medon</i>	15075	For stock sizes, each..... \$ 1.05
		Price large size on application.

Steel Tie Wrench.

For Hard Drawn Copper Wire.

The purpose of this tool is to make the tie around the line wire, where it is fastened to the insulators. It will wind the tie wire around line smoothly without marring same.



No. 15076

<i>Medora</i>	15076	Each.....	1.05
---------------	-------	-----------	------

Combination Lag-Screw and Nut Wrench.



No. 15077.

<i>Medway</i>	15077	Each.....	1.50
		Will take lag-screws and nuts for $\frac{3}{8}$ inch, $\frac{1}{2}$ inch and $\frac{5}{8}$ inch bolts.	

Steel Lag-Screw Wrench.

This wrench is very convenient for drawing up lag-screws through cross-arms; the jaw is made tapering to accommodate variations in bolt heads.



No. 15078.

<i>Mekers</i>	15078	Each.....	1.25
---------------	-------	-----------	------

Coe Wrenches.



No. 3496.

<i>Blunted</i>	3496	6 inch, 'per dozen	9.00
<i>Blunting</i>	3497	8 " "	10.00
<i>Bluntly</i>	3498	10 " "	12.00
<i>Blur</i>	3499	12 " "	14.00
<i>Blurred</i>	3500	15 " "	24.00
<i>Blurring</i>	3501	18 " "	30.00

Tree Trimmers.



No. 2520.

<i>Minburne</i> ¹	2520	Regular, each.....	2.50
<i>Minden</i>	2521	Extra heavy, each.....	3.00.



No. 15080.

<i>Melton</i>	15080	Vom Cleff, each.....	3.00
---------------	--------------	----------------------	-------------



No. 15115.

Electricians' Hammer.

Code Word.	List No.	List Price. Each.
<i>Mendon</i>	15115 9-oz.....	\$.65



No. 15116.

Nail Hammers.**Plain Eye.**

<i>Meridola</i>	15116 12-oz.....	.50
<i>Mento</i>	15117 15 ".....	.55
<i>Mento</i>	15118 18 ".....	.60

Adze Eye.

<i>Meridith</i>	15120 13-oz.....	.70
<i>Meredosia</i>	15121 16 ".....	.75
<i>Meredo</i>	15128 20 ".....	.80



No. 15122.

Hatchets.

<i>Meridan</i>	15122 Cut 3 3/4 inches.....	.80
<i>Meridia</i>	15123 Cut 4 1/4 ".....	.90



No. 15124.

Hand Axes.

<i>Merigold</i>	15124 4 1/2 inch cut.....	1.25
<i>Merom</i>	15125 5 ".....	1.45
<i>Merian</i>	15126 5 1/2 ".....	1.55
<i>Merrizourt</i>	15127 6 ".....	1.80



No. 15130.

Linemen's Axe.

<i>Merillian</i>	15130 With handle.....	1.25
<i>Merimac</i>	15132 Without handle.....	1.00



No. 24064.



No. 24065.



No. 24075.

Dicke Tools.

Carrying Hooks.

Code Word.	List No.	List Price.
<i>Skill</i>	24064 With Swivel, each.....	\$3.00
	Length of handle, 4 feet.	

Cant Hooks.

<i>Skilled</i>	24065	Length 4 feet, each.....	2.25
----------------	--------------	--------------------------	-------------

Wood Handle Tamping Bars.

<i>Skinch</i>	24075	Hardwood, iron shoe, per doz.....	25.00
---------------	--------------	-----------------------------------	--------------

Jenny Pole Support.

<i>Skinftint</i>	24076	6 feet, each.....	3.00
<i>Skinful</i>	24077	7½ " ".....	9.00
		Very strong and substantial.	



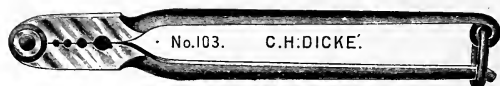
No. 24076.



No. 24078.

Mule Pole Support.

<i>Skink</i>	24078	4½ feet, each.....	5.00
<i>Skinless</i>	24079	6 " ".....	6.00
<i>Skinner</i>	24080	7½ " ".....	7.00
		Light and very strong.	



No. 24088.



No. 24091.



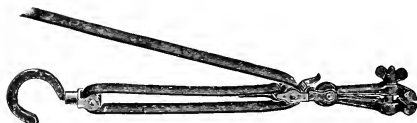
No. 24093.



No. 24095.



No. 24096.



No. 24098.



No. 24099.

Dicke Tools—(Continued.)

Splicing Clamps.

Code Word.	List No.	List Price.
<i>Skippingly</i>	24085	No. 100. Polished, 4 hole for No. 0 B. & S. wire and finer, per doz. \$30.00
<i>Skirl</i>	24086	No. 101. Polished, 2 hole for No. 0 B. & S. wire and finer, per doz. 30.00
<i>Skirling</i>	24087	No. 102. Polished, 2 hole for No. 3 B. & S. wire and finer, per doz. 30.00
<i>Skirmish</i>	24088	No. 103. Polished, 4 hole, for No. 8 B. & S. wire and finer, per doz. 30.00
<i>Skirmisher</i>	24089	No. 104. Polished, 4 hole, for No. 0 B. & S. wire and finer, per doz. 30.00
<i>Skirret</i>	24090	No. 105. Polished, same as 104, with copper jaws, per doz. 50.00

Western Climbers.

<i>Skirt</i>	24091	Without Straps, per pair. . 1.50
<i>Skirting</i>	24092	Straps, per set. 1.00

Eastern Climbers.

<i>Skittish</i>	24093	Without Straps, per pair. . 2.00
<i>Skittishly</i>	24094	Straps, per set. 1.00

Lag Screw Wrench.

<i>Skittles</i>	24095	Fits any size head, per doz. 16.00
-----------------	-------	------------------------------------

Splicing Tool.

<i>Skive</i>	24096	Per dozen. 9.00
--------------	-------	----------------------

Howe's Improved Wire Tool.

<i>Skiver</i>	24097	Wire Tightener, only (without vise), with strap, each. 4.50
<i>Skout</i>	24098	Wire Tightener, with 5½ in. Vise, with strap, each. 7.00

Eccentric Clamps.

<i>Skeed</i>	24099	For No. 9 wire and finer, per doz. 16.00
--------------	-------	---

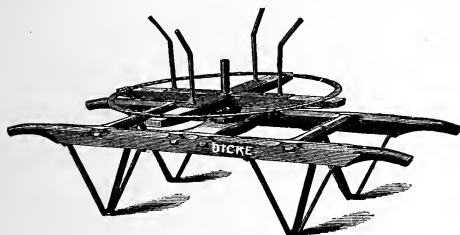


No. 24081.

Dicke Tools—(Continued.)

Common Reel.

Code Word. List No. List Price.
Each.
Skininess 24081 Complete with Pins..... \$10.00

No. 24082 $\frac{1}{2}$

Combination Pay-Out Reel.

Skinny 24082 $\frac{1}{2}$ Each 16.00



No. 24083.

Take-Up Reel.

Skip 24083 12-inch Reel 20.00
Skipper 24084 18-inch Reel 22.00

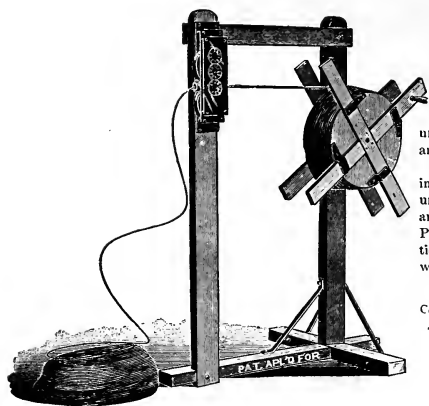


Dicke Lock Ferrule Screw Driver.

Blades forged from finest tool steel, Polished Malleable Ferrules, Fluted Handles.

Length of Blade.....	2 $\frac{1}{2}$	3 $\frac{1}{2}$	4 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{2}$	8 $\frac{1}{2}$	10 $\frac{1}{2}$	12 $\frac{1}{2}$			
Cabinet, per doz	\$3.00	\$3.50	\$4.50	\$5.50	\$6.50	\$8.00	\$9.50	\$11.00			
Length of Blade	2 $\frac{1}{2}$	3 $\frac{1}{2}$	4	5	6	7	8	9	10	11	12
Machinists, per doz ...	3.00	3.50	4.25	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00

Blades and Handles of the Dicke Screw Driver are warranted not to turn in the ferrule.



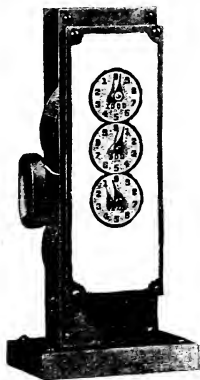
No. 24001.

Wire Reel and Meter.

The accompanying cut gives an idea of our Wire-Measuring and Reeling Device. It will save time and money and a short use will demonstrate its great value.

In the meter the wire passes between two self-adjusting rollers, which admit of a wide range, and will measure accurately either large or small wire. The pointers are movable and readily adjusted to the zero point. Parties handling wire, either as supplies or for construction work, cannot afford to be without this device, as it will pay for itself in a short time.

Code Word.	List No.	List Price
<i>Sixtur</i>	24001	Meter, with Reel, each. \$25.00



No. 24002.

Wire Meter for Counter.

The meter is also made, mounted on a neat base, to be used on a counter where a reel is not needed. For wire factories and dynamo builders the meter alone is invaluable.

<i>Six</i>	24002	Meter, without Reel, each. 16.00
------------	--------------	--

Cable Meters are made to order only, and are applicable for measuring cables of all sizes, rope or steel cables.

Special prices quoted on Cable Meters.

**Sheffy Pipe Wrench.**

It is quick acting, self-adjusting and has but three parts. It is so constructed that it cannot lock on the pipe, will disengage itself by reversing the lever. It cannot slip as the stronger the effort to turn the pipe the firmer the grip. It cannot be abused by using on larger pipe than the size designated by number. All parts interchangeable.

The construction is so simple that it appeals to the mechanic at once. No screws or springs and self-adjusting.

To operate the Sheffy Pipe Wrench, open the jaw, hook on the pipe, pull on the handle. This brings the lever up against the dog and creates the grip. The stronger the pull on the lever the stronger the grip.

Length and Dimensions

	0	1	2	3	4
Pipe,	7 inches $\frac{1}{2}$ to $\frac{3}{4}$	9 inches $\frac{1}{2}$ to $\frac{3}{4}$	12 inches $\frac{1}{2}$ to 1	15 inches $\frac{1}{2}$ to 1 $\frac{1}{2}$	18 inches $\frac{1}{2}$ to 2

Price List Wrenches and Parts.

	0	1	2	3	4
Wrench, List..	\$2.00	\$2.00	\$2.25	\$3.00	\$4.00
Handles, " ..	.50	.50	.60	.70	.80
Jaw, " ..	.70	.70	.80	.90	1.00
Dog, " ..	.60	.60	.70	.80	.90

"Vulcan" Insulated Screwdrivers.**MOULDED MICA INSULATION.**

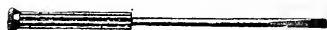
Nos. 1164 and 1168.

Catching	1164	2 $\frac{1}{2}$ inch, per dozen.....	6.00
Catchword	1165	3 $\frac{1}{2}$ " "	7.00
Catechise	1166	4 " "	8.00
Catechised	1167	5 " "	12.00
Catechism	1168	6 " "	13.50

Champion Screwdrivers.

No. 2556.

Luff	2554	2 $\frac{1}{2}$ inch, per dozen.....	3.00
Luggage	2555	3 " "	3.50
Lugger	2556	4 " "	4.25
Luke	2557	5 " "	5.00
Lull	2558	6 " "	6.00
Lullaby	2559	7 " "	7.00
Lulled	2560	8 " "	8.00
Lumbago	2561	9 " "	9.00
Lumbering	2562	10 " "	10.00
Lumberingly	2563	11 " "	11.00
Luminary	2564	12 " "	12.00



No. 15140.

Pinion Screw Driver.

Cpdo Word.	List No.	List Prior.
<i>Mincola</i>	15140 Each.....	\$ 50



No. 15142.

Handy Ratchet Screw Driver.

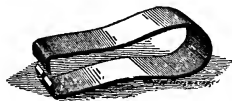
<i>Mineral</i>	15142 Small size, each .....	.60
<i>Acouchy</i>	25595 Large size, each	1.25



No. 15145

Novelty Pocket Screw Driver.

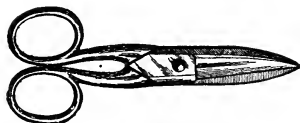
<i>Minerva</i>	15145 Each.....	.60
----------------	-----------------	-----



No. 15148.

Wire Peeler.

<i>Minor</i>	15148 Each.....	50
--------------	-----------------	----



No. 15150.

Electrician's Scissors.

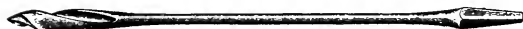
<i>Mingo</i>	15150 Per dozen.....	10.20
--------------	----------------------	-------



No. 15152.

Bell Hanger's Gimlet.

<i>Mincedosa</i>	15152 15-inch, $\frac{3}{8}$, each.....	7.50
<i>Mincola</i>	15153 15 " $\frac{1}{2}$ "	7.50
<i>Mineracuan</i>	15154 15 " $\frac{1}{2}$ "	7.50
<i>Minock</i>	15155 24 " $\frac{3}{8}$ "	8.50
<i>Minuka</i>	15156 24 " $\frac{3}{8}$ "	8.50
<i>Minster</i>	15157 24 " $\frac{1}{2}$ "	8.50
<i>Mishavanka</i>	15158 36 " $\frac{1}{2}$ "	9.50
<i>Misoula</i>	15159 36 " $\frac{1}{2}$ "	9.50
<i>Missourra</i>	15160 36 " $\frac{1}{2}$ "	9.50



No. 15162.

Pod Bits.

<i>Mitchell</i>	15162 18-inch, $\frac{1}{2}$, per dozen.....	4.80
<i>Moberly</i>	15163 18 " $\frac{1}{2}$ "	4.80



The "Syracuse" Electricians' Drill Bit.



THE NUMBERS INDICATE THE SIZES IN 32DS OF AN INCH.

No.	12 Inch, Per Doz.	No.	18 Inch, Per Doz.	No.	24 Inch, Per Doz.	No.	30 Inch, Per Doz.	No.	36 Inch, Per Doz.
6.....	\$5.00	6.....	\$7.00	6.....	\$9.00	6.....	\$11.00	6.....	\$13.00
8.....	5.00	8.....	7.00	8.....	9.00	8.....	11.00	8.....	13.00
10.....	5.50	10.....	7.50	10.....	9.50	10.....	12.00	10.....	13.00
12.....	6.00	12.....	8.00	12.....	10.00	12.....	12.00	12.....	13.00
14.....	7.00	14.....	9.00	14.....	11.00	14.....	13.00	14.....	14.00
16.....	8.00	16.....	10.00	16.....	12.00	16.....	14.00	16.....	15.00
18.....	9.00	18.....	11.00	18.....	13.00	18.....	15.00	18.....	16.00
20.....	10.00	20.....	12.00	20.....	14.00	20.....	15.00	20.....	16.00
22.....	11.00	22.....	13.00	22.....	15.00	22.....	16.00	22.....	17.00
24.....	12.00	24.....	14.00	24.....	16.00	24.....	17.00	24.....	18.00
26.....	13.00	26.....	15.00	26.....	17.00	26.....	18.00	26.....	18.00
28.....	14.00	28.....	16.00	28.....	18.00	28.....	19.00	28.....	19.00
30.....	15.00	30.....	17.00	30.....	19.00	30.....	20.00	30.....	20.00
32.....	16.00	32.....	18.00	32.....	20.00	32.....	20.00	32.....	20.00
34.....	17.00	34.....	19.00	34.....	20.00	34.....	20.00	34.....	20.00
36.....	18.00	36.....	20.00	36.....	21.00	36.....	21.00	36.....	21.00

Adjustable Malleable Iron Handles.



FOR USE WHERE A BRACE IS INCONVENIENT.

Per dozen..... List Price.
\$1.25

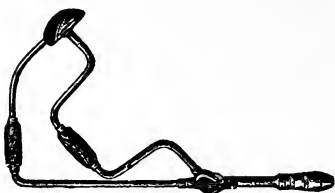


No. 2353.

Automatic Boring Tools.

Code Word.
Corkscrew

List No.
2353 Automatic Boring Tool, with 8
Drills, each..... 2.00



No. 2912.

Amidon's Patent Corner Bit Brace.

Code Word.	List No.	List Price.
<i>Conjugation</i>	2913 8 " " " per doz.....	\$40.00
<i>Conjunct</i>	2914 10 " " " "	44.00



No. 2916.

Braces—Ratchet.

<i>Conjunction</i>	2916 6-inch sweep, per doz.....	30.00
<i>Conjunctive</i>	2917 8 " " " "	33.00
<i>Conjunctly</i>	2918 10 " " " "	36.00
<i>Conjuncture</i>	2919 12 " " " "	39.00
<i>Conjuration</i>	2920 14 " " " "	42.00



No. 2944.

Braces—Plain.

<i>Conjure</i>	2944 6-inch sweep, per doz.....	10.80
<i>Conjuror</i>	2945 8 " " " "	11.80
<i>Connate</i>	2946 10 " " " "	12.25
<i>Connect</i>	2947 12 " " " "	13.68



No. 15085.

Draw Knives

<i>Melhorn</i>	15085 12-inch blade, each, per doz.....	11.50
<i>Melrin</i>	15086 14 " " " "	13.00



No. 1748.

Saws.

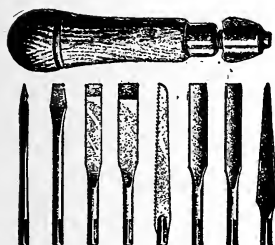
<i>Connected</i>	1748 14-inch panel saw, per doz.....	16.00
<i>Connivance</i>	1749 16 " " " "	17.35
<i>Connive</i>	1750 18 " " " "	18.75
<i>Connivency</i>	1751 20 " " " "	20.00
<i>Connitent</i>	1752 22 " " " "	21.50
<i>Conniter</i>	1753 24 " " " "	22.75



No. 15165.

Inspector's Tools.

Code Word.	List No.	List Price.
<i>Modena</i>	15165	Complete set in Morocco case, containing everything necessary for adjusting telephone apparatus, telegraph and stock-printing instruments, etc..... \$ 5.50
<i>Modesta</i>	15166	Case, only..... 1.50



No. 15170.

Combination Handles.

<i>Mohawk</i>	15170	Large size, complete..... 1.75
---------------	-------	--------------------------------



No. 15175.

<i>Molton</i>	15175	11 Tools, complete..... 1.25
---------------	-------	------------------------------



No. 3832.

Pipe Cutters.

<i>Blighting</i>	3832	Knife, No. 2..... 8.00
<i>Blind</i>	3833	" " 3..... 16.00

Porter's Wire Cutters.

<i>Behold</i>	3787	Porter's Easy Wire Cutters, will cut $\frac{3}{8}$ -inch wire, each 5.00
<i>Beholden</i>	3788	Porter's Easy Wire Cutters, will cut $\frac{1}{2}$ -inch wire, each 7.00
<i>Bodily</i>	3527	Heavy Wire Cutters, will cut $\frac{3}{4}$ -inch wire, each..... 9.00



No. 3787.



No. 15180.

Cold Chisel.

Code Word.	List No.	List Price Per doz.
<i>Monence</i>	15180 3/4-inch.....	3.00
<i>Mona</i>	15181 1/2 ".....	3.75
<i>Moncure</i>	15182 5/8 ".....	4.50
<i>Monclova</i>	15183 3/4 ".....	5.25



No. 15185.

Socket Framing Chisel.

<i>Monster</i>	15185 1 inch.....	8.00
<i>Mondamin</i>	15186 1 1/2 ".....	10.00
<i>Mondola</i>	15187 2 ".....	12.00



No. 15190.

Brick Drills.

<i>Monnee</i>	15190 Steel.....	18.00
---------------	------------------	-------



No. 15191.

<i>Monetta</i>	15191 Hollow.....	10.00
----------------	-------------------	-------



No. 15192.

Floor Groovers.

<i>Moncka</i>	15192	12.00
---------------	-------------	-------



No. 15193.

<i>Monnette</i>	15193 With removable knife.....	14.00
-----------------	---------------------------------	-------



No. 15195.

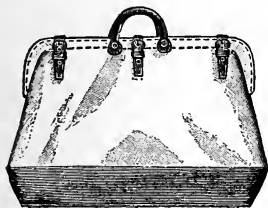
<i>Monon</i>	15195 With sinker.....	20.00
--------------	------------------------	-------



No. 15200.

Tool Belt.

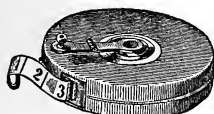
Code Word.	List No.	List Price Each
<i>Monongah</i>	15200	\$ 1.25



No. 15201.

Linemen's Tool Bag.

<i>Monongahela</i>	15201	Canvas.....	3.00
<i>Monroe</i>	15202	Leather.....	3.75



No. 15205.

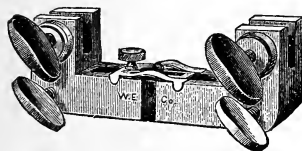
Tape Lines.

Sole Leather-Cases.

<i>Monrovia</i>	15205	25 ft. per doz.....	21.00
<i>Monsin</i>	15206	50 ' "	31.80
<i>Montague</i>	15207	100 ' "	50.40

Asses Skin, Brass Bound Case.

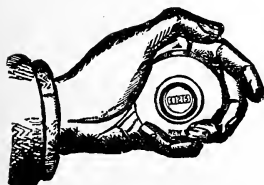
<i>Montandon</i>	15210	25 ft. per doz	5.00
<i>Montclair</i>	15211	50 ' "	8.00
<i>Montbello</i>	15212	75 ' "	10.00
<i>Montello</i>	15213	100 ' "	12.50



No. 15213.

Line-Tapping Clamps.

<i>Monteray</i>	15215	4.00
-----------------	-------	-------	------



No. 15216

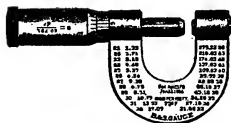
Pole Counter or Tally Register.

<i>Monterale</i>	15216	3.00
------------------	-------	-------	------



No. 8624.

<i>Constitutive</i>	8624	American Standard Wire Gauge, 0 to 36, each..	\$ 2.50
<i>Constrain</i>	8625	" " 5 " 36, " ..	2.00
<i>Constrainedly</i>	8626	English " " 1 " 36, " ..	2.00
<i>Constraining</i>	8627	" " 6 " 36, " ..	1.50



No. 2392.

<i>Constrict</i>	2392	Micrometer Caliper, measures from .001 to 1 inch, each.....	5.00
<i>Casual</i>	2393	Micrometer Caliper, measures from .001 to 1 inch, in morocco case, each.....	5.75



No. 2527

<i>Constraint</i>	2527	Micrometer Caliper, measures from .001 to .5 inch, each.....	4.50
<i>Casualty</i>	2528	Micrometer Caliper, measures from .001 to .5 inch, in morocco case, each.....	5.00



No. 3205.

Soldering Apparatus and Supplies

W. E. Soldering Salts.

Code Word.	List No.	List Price.
<i>Arbitrate</i>	3205 1 $\frac{1}{2}$ pound bottles, per pound	\$0.75
<i>Arbitrator</i>	3206 1 $\frac{1}{2}$ " " "	.65
<i>Arade</i>	3207 1 $\frac{1}{2}$ " " "	.50

The S. S. Soldering Paste.

The Paste being in a soft, plastic condition, can be applied to the metal to be soldered in quantities just sufficient for the purpose. After an application of this paste the solder flows easily. The paste will not tarnish or corrode the metal.

<i>Solennizer</i>	24457 $\frac{1}{2}$ pound boxes, per pound	1.40
<i>Solennly</i>	24458 1 " " "	1.30



No. 24459.

<i>Sokemness</i>	24459 Per stick	.25
------------------	-----------------	-----

The Allen Soldering Stick.

Star Soldering Stick.

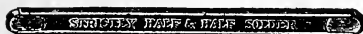
<i>Acoustics</i>	25596 Per stick	.25
------------------	-----------------	-----



No. 3513.

Soldering Coppers, Pointed.

<i>Blutrous</i>	3513 2 $\frac{1}{2}$ pounds to the pair, per pound	.48
<i>Boar</i>	3514 3 " " "	.48
<i>Board</i>	3515 4 " " "	.48
<i>Boardable</i>	3516 5 " " "	.48
<i>Boarded</i>	3517 6 " " "	.48
<i>Boarding</i>	3518 7 " " "	.48
<i>Boast</i>	3519 8 " " "	.48
<i>Boaster</i>	3520 9 " " "	.48
<i>Boastful</i>	3521 10 " " "	.48



No. 3338.

Solder.

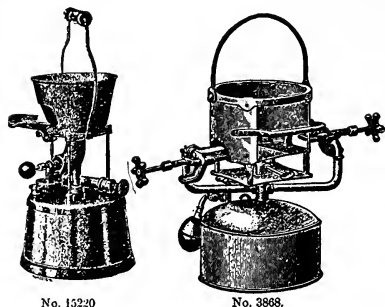
AT LOWEST MARKET PRICES.

<i>Concolor</i>	3338 Strictly Half and Half	
-----------------	-----------------------------	--



No. 3339.

<i>Concomitant</i>	3339 Wire Solder	
<i>Concord</i>	3340 Rosin Core Solder	



No. 15240

No. 3868.

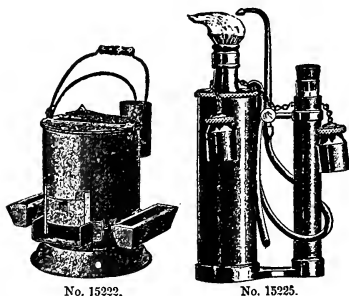
Soldering Apparatus—(Continued).

Code Word.	List No.	List Price. Each.
Montevideo	15220	Combination Hot Blast Furnace..... \$ 10.00 Holds 1 gallon of oil

Binomial.	3868	Helper's Firepot. Can also be used as a reversible torch..... 10.00
-----------	------	--

Charcoal Soldering Furnace.

Code Word.	List No.	List Price. Each.
Montgomery	15222	..... 5.00



No. 15222.

No. 15225.

Combination Soldering Torch.**For Alcohol.**

Montcell	15225 3.00
----------	-------	------------

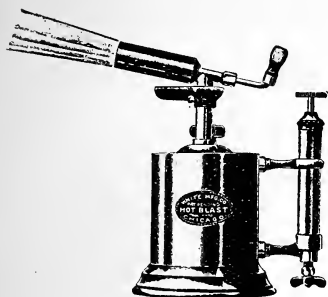
This torch can be carried in the pocket or tool bag. The handle contains a vial for acid, doing away with carrying an extra acid bottle. The blow-pipe is adjustable and the wick large. It is made entirely of brass and highly polished.



No. 15230

Montecello	15230	Wellington Torch..... 7.50
------------	-------	----------------------------

Soldering Apparatus—(Continued.)



No. 23116.

Imperial Hot Blast Gasoline Blow Torch.

This torch is made especially for burning paint, thawing pipes, burning lead, etc. It generates a blue flame of 1500 degrees F. The size and power of the flame can be increased or turned down to suit the work. The tank holds 1½ pints of gasoline, and is made of the best drawn brass, of 18 gauge, is seamless and highly polished. The diameter of the tank is 4½ inches, and the height to top of burner is 9 inches. It weighs 3 lbs. It is equipped with a brass pump, which has strong detachable connections, and a simple accessible valve. The torch will burn in any position, and consume ½ pint per hour at full blast and will not blow out in the wind. The tank has a cone-shaped bottom, giving additional strength. These torches are fully tested and warranted.



No. 23117.

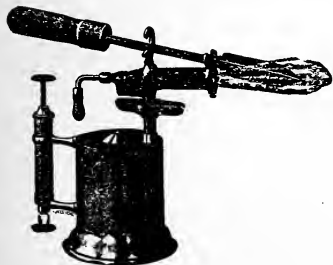
Code Word.	List No.	List Price.
		Each.
<i>Simplex</i>	23116 Imperial Torch.....	\$5.00

Braziers' Hot Blast Blow Torch.

For Gasoline.

For brazing and tempering small tools and springs, soldering patterns, and annealing brass and other metals, heating soldering coppers, glue, burning off paint, general bench, furnace work, etc.

<i>Simplex</i>	23117 Braziers' Torch.....	6.00
----------------	----------------------------	------



No. 23118.

The Combination Hot Blast Blow Torch.

For Gasoline.

Three useful tools in one: a brazier, soldering iron heater, and blow torch for plumbers, electricians and conduit workers. Will not blow out.

<i>Simplex</i>	23118	6.00
----------------	-------------	------



No. 23119.

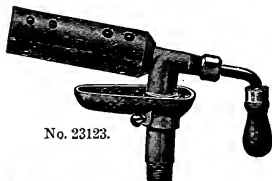


No. 23120.

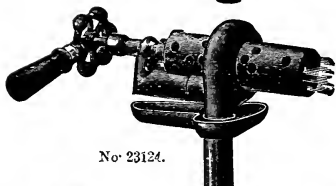


No. 23121

No. 23122.



No. 23123.



No. 23124.



No. 23125.



No. 23126 and 23127.



No. 23128.



No. 23129.



No. 23131.



No. 23134.



No. 23132, and 23133.

Soldering Apparatus—(Continued.)

The Electric "Hot Blast" Blow Torch.

For Gasoline.

It produces a solid blue flame. Weighs two pounds when empty, three pounds when filled. Is very strong as well as light. Will burn in any position.

Code Word.	List No.	List Price, Each.
<i>Similar</i>	23119 Hot Blast Torch.	\$ 4.50

Repair Parts to Torches.

<i>Simulate</i>	23120	No. 1. Air Pump, complete for Hot Blast Torches.	1.00
		Imperial Torches	
		Brazier's Torches	
		Combination Furnaces.	
<i>Simulty</i>	23121	No. 2. Lower Bracket for Pump.	.50
<i>Sim</i>	23122	No. 3. Upper Bracket for Pump.	.50
<i>Simile</i>	23123	No. 4. Burner for Imperial Blow Torch, complete.	2.50
<i>Similitic</i>	23124	No. 6a. Burner for Brazier's Blow Torch.	4.00
<i>Simopie</i>	23125	No. 9. Filler Cap for Blow Torches.	.20
<i>Simopine</i>	23126	No. 10a. Needle Valve Seat for Imperial and Brazier's Torch.	.30
<i>Simopix</i>	23127	No. 10b. Needle Valve Seat for Combination and Tinner's Furnace.	.30
<i>Simopism</i>	23128	No. 11a. Large Packing Nut for Imperial Brazier's Torches.	.20
<i>Simue</i>	23129	No. 12a. Large Drip Cup for Imperial and Duplex Torches, and Combination and Tinner's Furnaces.	.30
<i>Simdon</i>	23130	No. 12b. Large Drip Cup for Brazier's Torch.	.30
<i>Simue</i>	23131	No. 14. Air Valve for Screw and Packing Nut for Imperial and Brazier's Torches.	.30
<i>Simereure</i>	23132	No. 16. Perforated Burner Tube for Imperial Torch.	.40
<i>Simopite</i>	23133	No. 16a. Perforated Burner Tube for Brazier's Torch.	.40
<i>Simue</i>	23134	No. 20. Needle and Packing Nut for Imperial and Brazier's Torches.	.50



No. 8649.

Soldering Apparatus—(Continued)

Code Word.	List No	List Price
<i>Archangel</i>	8649	Vulcan Torch. each.....\$10.00



No. 8652.

<i>Christened</i>	8652	Economic Flux Bulb, for soldering acid, each..	2.25
-------------------	-------------	--	-------------



No. 8653.

<i>Christening</i>	8653	Alcohol Blow Lamp, small size, each....	1.25
<i>Christian</i>	8654	" " regular size, each.....	1.50
<i>Christianity</i>	8655	" " large " "	2.00
<i>Christmas</i>	8656	" " extra " "	2.50

Station and Workmen's Supplies.

Tape.

IN $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2 AND 3 INCHES.



Code Word.	List No.		List Price.
<i>Beamlet</i>	3638	Grimshaw, black, per pound.....	\$1.10
<i>Beamtree</i>	3639	" white, "	1.00
<i>Beamy</i>	3640	Competition, black, " .....	.75
<i>Bean</i>	3641	" white, " .....	.75
<i>Beaucaper</i>	3642	Okonite, black, "	2.00
<i>Beancod</i>	3643	Manson, black, "	1.40
<i>Beanfed</i>	3644	" white, "	1.40
<i>Beanfly</i>	3645	Paragon, black, " .....	.60
<i>Beangoose</i>	3646	Tenax, black, " .....	.60
<i>Bear</i>	3647	" white, " .....	.60
<i>Calamity</i>	3623	Century Tape, " .....	.90
<i>Creased</i>	8746	Kerite " per roll.....	.95
<i>Solen</i>	24460	Sampson Friction Tape, per pound.....	.75
<i>Solenacean</i>	24461	Clifton Tape, " .....	.75
<i>Solenaceous</i>	24462	Simplex, " .....	.75
<i>Soleness</i>	24463	B. W. H., " .....	.85



Splicing Compound.

<i>Bears</i>	3731	Chatterton's American, per pound.....	1.60
<i>Bearable</i>	3732	" Imported "	2.00
<i>Beard</i>	3733	Tenax Splicing Compound, in rolls, per pound..	1.00
<i>Solenite</i>	24464	Para " " " " ..	1.25



No. 24438.

Gale's Commutator Compound.

Code Word.	List No.	List Price
<i>Solarize</i>	24438 Per Stick	\$0.75
<i>Solary</i>	24439 Per Dozen	8.00

Crölus Commutator Compound.

Acquaintable 25597 Per stick50



No. 8701.

Kester's Commutator Compound.

Lapidary 8701 Per Stick25

**Hoffman's Rod Polish.**

Will not wear the lamp rod. It is in the form of a powder, put up in tin boxes, and easily applied.

Soldanel 24441 Per Box30



No. 24442.



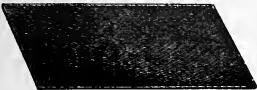
No. 24445.

Rubber Gloves.

<i>Soldanrie</i>	24442	Regular Rubber, no cuffs, per dozen	13.00
<i>Soldier</i>	24443	“ “ with cuffs, “	16.50
<i>Soldiering</i>	24444	Heavy “ no cuffs, “	24.00
<i>Soldierly</i>	24445	“ “ with cuffs, “	30.00

Hard Rubber Sheet.

Size of Sheets 20x48 inches.




Code Word.	List No.	Thickness.	Approximate weight of full sheets.	List Price. Per Pound.
<i>Hyattsville</i>	13210	$\frac{1}{8}$ inch	1 $\frac{1}{2}$ pound.	\$ 2.10
<i>Hyndman</i>	13211	$\frac{1}{8}$ "	2 $\frac{1}{4}$ "	2.00
<i>Hyndsville</i>	13212	$\frac{3}{8}$ "	3 $\frac{1}{2}$ "	2.00
<i>Iberia</i>	13213	$\frac{1}{2}$ "	4 $\frac{1}{2}$ "	2.00
<i>Icamole</i>	13214	$\frac{1}{2}$ "	5 $\frac{1}{2}$ "	2.00
<i>Idalia</i>	13215	$\frac{5}{8}$ "	6 "	2.00
<i>Idleveld</i>	13216	$\frac{3}{4}$ "	7 $\frac{1}{2}$ "	2.00
<i>Ignacio</i>	13217	$\frac{3}{4}$ "	10 $\frac{1}{2}$ "	2.00
<i>Ikon</i>	13218	$\frac{5}{8}$ "	13 $\frac{1}{4}$ "	2.00
<i>Illiopolis</i>	13219	$\frac{3}{4}$ "	16 $\frac{1}{2}$ "	2.00
<i>Independence</i>	13220	$\frac{7}{8}$ "	18 $\frac{1}{4}$ "	2.00
<i>Indianola</i>	13221	$\frac{1}{2}$ "	22 "	2.00
<i>Ingrams</i>	13222	$\frac{3}{4}$ "	24 "	2.00
<i>Ingalls</i>	13223	$\frac{3}{4}$ "	27 "	2.00
<i>Ingallon</i>	13224	$\frac{3}{4}$ "	32 "	2.00
<i>Ingersoll</i>	13225	$\frac{3}{4}$ "	35 "	2.00
<i>Ingleside</i>	13226	1 "	40 "	2.00
<i>Inkseter's</i>	13227	1 $\frac{1}{4}$ "	50 "	2.00

Vulcanized Fibre Sheet.

Size of Sheets 40x70 inches.

Indian Red or White.

For convenience in shipping we prefer to cut sheets in halves or quarters



	Thickness.	
<i>Interlochen</i>	13235.	1 $\frac{1}{8}$ inch.60
<i>Inwood</i>	13236	$\frac{1}{4}$ "60
<i>Iola</i>	13237	$\frac{3}{8}$ "60
<i>Ione</i>	13238	$\frac{1}{2}$ "50
<i>Ionis</i>	13239	$\frac{1}{2}$ "50
<i>Ipava</i>	13240	$\frac{3}{4}$ "50
<i>Ipswich</i>	13241	$\frac{1}{2}$ "50
<i>Iredell</i>	13242	$\frac{3}{8}$ "60
<i>Ironation</i>	13243	$\frac{3}{4}$ "60
<i>Ironate</i>	13244	$\frac{3}{4}$ "60
<i>Ironton</i>	13245	1 "65
<i>Irolo</i>	13246	1 $\frac{1}{4}$ "65
<i>Iroquois</i>	13247	1 $\frac{1}{2}$ "75

Black, 5 cents per pound advance.

Hard Rubber Rods.

In lengths of 30 inches.

Code Word	List No.	Diameter	Approximate Weight per Per 100 Feet.	List Price.
<i>Irvineton</i>	13260	$\frac{1}{8}$ inch	$\frac{3}{4}$ pounds	\$ 1.80
<i>Irving</i>	13261	$\frac{1}{8}$ "	$1\frac{1}{2}$ "	1.80
<i>Irvington</i>	13262	$\frac{1}{8}$ "	$2\frac{3}{4}$ "	1.50
<i>Irona</i>	13263	$\frac{1}{8}$ "	4 "	1.50
<i>Irwin</i>	13264	$\frac{1}{8}$ "	$6\frac{1}{8}$ "	1.50
<i>Isabel</i>	13265	$\frac{1}{8}$ "	8 "	1.50
<i>Ishpening</i>	13266	$\frac{1}{8}$ "	$10\frac{1}{4}$ "	1.40
<i>Islets</i>	13280	$\frac{1}{8}$ "	$12\frac{3}{4}$ "	1.40
<i>Islington</i>	13281	$\frac{3}{8}$ "	16 "	1.35
<i>Islip</i>	13267	$\frac{1}{8}$ "	$19\frac{1}{4}$ "	1.35
<i>Ithica</i>	13269	$\frac{3}{8}$ "	$22\frac{3}{4}$ "	1.35
<i>Ithican</i>	13270	$\frac{1}{8}$ "	$27\frac{3}{4}$ "	1.35
<i>Iuka</i>	13271	$\frac{3}{8}$ "	$29\frac{1}{4}$ "	1.35
<i>Jackman</i>	13272	$\frac{1}{8}$ "	$36\frac{1}{2}$ "	1.35
<i>Jacksonboro</i>	13273	1 "	42 "	1.25
<i>Jacksonport</i>	13274	$1\frac{1}{4}$ "	$65\frac{1}{2}$ "	1.25
<i>Jalapa</i>	13275	$1\frac{1}{2}$ "	$92\frac{1}{2}$ "	1.25
<i>Jamaica</i>	13276	$1\frac{3}{4}$ "	128 "	1.25
<i>Jamiesburg</i>	13277	2 "	1 rod 4 "	1.25
<i>Jamison</i>	13278	$2\frac{1}{4}$ "	1 " $5\frac{1}{4}$ "	1.25
<i>Jamestown</i>	13279	$2\frac{1}{2}$ "	1 " $6\frac{1}{4}$ "	1.25

Vulcanized Fibre Rod.

Red, Random Lengths.

	Diameter.	
<i>Jamestown</i>	13285	$\frac{1}{8}$ inch, per foot..... 12
<i>Jamison</i>	13286	$\frac{1}{8}$ " " "..... 14
<i>Jaral</i>	13287	$\frac{3}{8}$ " " "..... 16
<i>Jarvis</i>	13288	$\frac{1}{2}$ " " "..... 18
<i>Jaudon</i>	13289	$\frac{3}{8}$ " " "..... 18
<i>Jeddo</i>	13290	$\frac{1}{2}$ " " "..... 24
<i>Jefferson</i>	13291	$\frac{1}{2}$ " " "..... 26
<i>Jenkinson</i>	13292	$\frac{3}{8}$ " " "..... 28
<i>Jennings</i>	13293	$\frac{1}{2}$ " " "..... 34
<i>Jenny</i>	13294	$\frac{1}{2}$ " " "..... 40
<i>Jericho</i>	13295	$\frac{1}{2}$ " " "..... 48
<i>Jermy</i>	13296	$\frac{3}{8}$ " " "..... 64
<i>Jerome</i>	13297	1 " " "..... 84
<i>Jerusalem</i>	13298	$1\frac{1}{4}$ " " "..... 1.30
<i>Jesup</i>	13299	$1\frac{3}{8}$ " " "..... 1.60

Black fibre can be furnished on application.

Hard Rubber Battery Cells.

The sizes given below are inside dimensions, the thickness of the shell $\frac{1}{8}$ inch.

These cells are all plain except the No. 13,994 which has a shoulder near the top for cover—the price on cells is without cover. The inside dimensions are given at the bottom and on account of the taper allowed for the mandrel the dimensions are slightly greater at the top, about $\frac{1}{8}$ inches.



Code Word.	List No.		List Price.
<i>Livermore</i>	13993	$2\frac{1}{2} \times 4\frac{1}{2} \times 9\frac{1}{2}$ inches high.....	\$1.50
<i>Livingstone</i>	13994	$2\frac{1}{2} \times 4\frac{1}{2} \times 10\frac{1}{2}$ " ".....	1.50
<i>Litonis</i>	13995	$3\frac{1}{2} \times 3\frac{1}{2} \times 6\frac{1}{2}$ " ".....	1.00
<i>Luna</i>	13996	$5 \times 5 \times 7\frac{1}{2}$ " ".....	1.50

Tubing.

Hard Rubber Tubing.

In Lengths of 24 Inches.



Code Word.	List No.	Outside Diam.	Inside Diam.	Approx. No. of Feet per lb.	List Price. Per pound.
<i>Bloat</i>	3481	$\frac{3}{8}$ inch.	$\frac{1}{8}$ inch.	20.....	\$ 1.20
<i>Bloated</i>	3482	$\frac{1}{2}$ "	$\frac{1}{4}$ "	14.....	1.20
<i>Bloater</i>	3483	$\frac{1}{2}$ "	$\frac{5}{16}$ "	16.....	1.20
<i>Blotter</i>	3484	$\frac{3}{8}$ "	$\frac{3}{8}$ "	10.....	1.20
<i>Blitheful</i>	3485	$\frac{3}{8}$ "	$\frac{1}{2}$ "	8.....	1.20
<i>Blithely</i>	3486	$\frac{3}{8}$ "	$\frac{3}{8}$ "	8.....	1.20
<i>Blithesome</i>	3487	1 "	$\frac{3}{4}$ "	6.....	1.20
<i>Binnacle</i>	3488	1 $\frac{1}{8}$ "	$\frac{7}{8}$ "	6.....	1.20

Vulcanized Fibre Tubing.

Length about 22 inches, $\frac{1}{16}$ to $\frac{3}{8}$ -inch walls.

		Inside Diam.		
<i>Jewett</i>	13310	$\frac{1}{4}$ inch.	.....	1.00
<i>Joab</i>	13311	$\frac{3}{8}$ "	.....	1.00
<i>Jobstorn</i>	13312	$\frac{1}{2}$ "	.....	1.00
<i>Johnston</i>	13313	$\frac{3}{8}$ "	.....	1.00
<i>Johnson</i>	13314	$\frac{3}{8}$ "	.....	1.00
<i>Jolley</i>	13315	1 "	.....	1.00
<i>Jonesboro</i>	13316	1 $\frac{1}{4}$ "	.....	1.00
<i>Joplin</i>	13317	1 $\frac{1}{2}$ "	.....	1.00



Okonite Tubing.

Approx. No. of Feet per lb.

<i>Allowance</i>	3249	$\frac{1}{8}$ inch.	35 feet.....	2.00
<i>Allowing</i>	3250	$\frac{1}{4}$ "	17 "	2.00
<i>Alloy</i>	3251	$\frac{5}{16}$ "	14 "	2.00
<i>Alloyage</i>	3252	$\frac{3}{8}$ "	11 $\frac{1}{2}$ "	2.00
<i>Alloyed</i>	3253	$\frac{1}{2}$ "	10 "	2.00
<i>Allo</i>	3254	$\frac{3}{8}$ "	8 "	2.00
<i>Allospice</i>	3255	$\frac{3}{4}$ "	4 $\frac{1}{2}$ "	2.00
<i>Allude</i>	3256	$\frac{7}{8}$ "	4 "	2.00
<i>Aluding</i>	3257	1 "	3 "	2.00



Soft Rubber Tubing.

		Inside Diam.	Covers Wire.	Approx. No. of Feet per lb.	
<i>Branding</i>	3475	$\frac{1}{4}$ inch.	No. 20 B. & S. G.,	100.....	1.35
<i>Brandy</i>	3476	$\frac{5}{16}$ "	14 "	50.....	.85
<i>Bravado</i>	3477	$\frac{1}{4}$ "	10 "	20.....	.85
<i>Brave</i>	3478	$\frac{5}{16}$ "	6 "	15.....	.85
<i>Bravely</i>	3479	$\frac{3}{8}$ "	4 "	12.....	.85
<i>Bridget</i>	3480	$\frac{1}{2}$ "	0 "	9.....	.85



Insulating Paints.

<i>Capitation</i>	3347	P. & B. Paint, 1 gallon cans, per gallon.....	1.50
<i>Capitulate</i>	3348	" " 5 " "	1.40
<i>Capon</i>	3349	" " barrel lots, "	1.25

Armalac.

For Insulating Field Magnets and Armatures.

Acid, alkali and waterproof. Absolutely non-inflammable. Unexcelled and unvarying standard of insulation.

Code Word.	List No.	Bbls. Per Gal.	Half Bbls.	Cans.	
<i>Covenant</i>	8728	Armalac.....	\$1.65	\$1.75	\$2.00

Insullac

Is a rapid drying orange colored insulating varnish, possessing great insulating properties and absolute resistance to lubricating oils. Dilute with insullac thinner only.

			Bbls. Per Gal.	Half Bbls.	Cans.
<i>Copyist</i>	8729	Insullac.....	\$1.65	\$1.75	\$2.00

Insullac Thinner.

A Dilutant for Insullac.

			Bbls. Per Gal.	Half Bbls.	Cans.
<i>Gertrude</i>	8881	Insullac Thinner	\$1.35	\$1.45	\$1.70

Enamelac.

For producing highly-lustrous, smooth and waterproof surfaces upon wood or iron. Unexcelled as a preservative.

			Bbls. Per Gal.	Half Bbls.	Cans.
<i>Copyholder</i>	8730	Enamelac.....	\$0.80	\$0.90	\$1.00



Waste.

<i>Cask</i>	3999	Best Quality Cotton Waste, per pound.....	15
-------------	------	---	----

Crocus Cloth.

<i>Cousin</i>	8726½	Per Sheet. ....	.05
		" Ream.....	18.00

Asbestos.

<i>Cove</i>	8727	Asbestos Paper, in rolls, per pound30
-------------	------	---	-----



Standard Price List

OF

Electrical Mica.

Size.	Price per lb.	Size.	Price per lb.	Size.	Price per lb.	Size.	Price per lb.	Size.	Price per lb.	Size.	Price per lb.
1½ x 3	\$0 60	2 x 2½	\$0 60	2½ x 7½	\$5 00	2½ x 5	\$5 00	3½ x 5½	\$7 75	4½ x 7	\$9 75
1½ x 3½	65	2 x 2½	65	2½ x 8	5 50	2½ x 5½	5 25	3½ x 6	8 50	4½ x 8	10 00
1½ x 3½	70	2 x 2½	70	2½ x 8½	6 25	2½ x 5½	5 50	3½ x 7	8 75	4½ x 9	10 25
1½ x 3½	75	2 x 3	75	2½ x 9	6 75	2½ x 6	6 00	3½ x 8	9 00	4½ x 10	11 25
1½ x 4	90	2 x 3½	80	2½ x 9½	7 50	2½ x 6½	6 25	3½ x 9	9 50	4½ x 11	12 00
1½ x 4½	1 00	2 x 3½	90	2½ x 10	8 00	2½ x 7	6 75	3½ x 10	10 50	4½ x 12	13 00
1½ x 4½	1 15	2 x 3½	1 00	2½ x 11	8 50	2½ x 7½	7 25	3½ x 11	12 00	5 x 5	8 50
1½ x 5	1 50	2 x 4	1 20	2½ x 12	9 50	2½ x 8	7 75	3½ x 12	12 50	5 x 5½	9 00
1½ x 5½	1 90	2 x 4½	1 25	2½ x 2½	85	2½ x 8½	8 75	3½ x 3½	4 50	5 x 6	9 50
1½ x 6	2 40	2 x 4½	1 40	2½ x 2½	1 00	2½ x 9	9 00	3½ x 3½	5 00	5 x 6½	9 75
1½ x 6½	3 00	2 x 4½	1 50	2½ x 3	1 25	2½ x 9½	9 50	3½ x 4	6 00	5 x 7	10 00
1½ x 7	4 00	2 x 5	1 75	2½ x 3½	1 35	2½ x 10	10 00	3½ x 4½	6 25	5 x 8	10 25
1½ x 7½	4 50	2 x 5½	2 40	2½ x 3½	1 50	2½ x 11	11 00	3½ x 4½	6 50	5 x 9	10 50
1½ x 8	4 75	2 x 6	3 00	2½ x 3½	1 60	2½ x 12	11 50	3½ x 4½	7 00	5 x 10	11 00
1½ x 8½	5 25	2 x 6½	3 50	2½ x 4	1 75	3 x 3	2 50	3½ x 5	7 50	5 x 11	12 00
1½ x 9	5 75	2 x 7	4 50	2½ x 4½	2 00	3 x 3½	2 75	3½ x 5½	8 25	5 x 12	13 50
1½ x 9½	6 50	2 x 7½	4 75	2½ x 4½	2 50	3 x 3½	3 25	3½ x 6	8 75	5½ x 5½	9 25
1½ x 10	7 00	2 x 8	5 00	2½ x 4½	3 00	3 x 3½	3 75	3½ x 6½	8 75	5½ x 6	9 75
1½ x 11	7 75	2 x 8½	5 75	2½ x 5	3 50	3 x 4	5 00	3½ x 7	9 00	5½ x 7	10 25
1½ x 12	8 75	2 x 9	6 25	2½ x 5½	3 60	3 x 4½	5 25	3½ x 8	9 25	5½ x 8	10 50
1½ x 3	70	2 x 9½	7 00	2½ x 5½	3 75	3 x 4½	6 00	3½ x 9	9 50	5½ x 9	10 75
1½ x 3½	75	2 x 10	7 50	2½ x 6	4 25	3 x 4½	6 50	3½ x 10	10 75	5½ x 10	11 50
1½ x 3½	85	2 x 11	8 25	2½ x 6½	4 50	3 x 5	7 00	3½ x 11	12 00	5½ x 11	12 00
1½ x 3½	1 00	2 x 12	9 25	2½ x 7	5 00	3 x 5½	7 50	3½ x 12	13 00	5½ x 12	13 50
1½ x 4	1 10	2½ x 2½	60	2½ x 7½	5 25	3 x 6	8 00	4 x 4	7 00	6 x 6	10 00
1½ x 4½	1 15	2½ x 2½	65	2½ x 8	5 50	3 x 6½	8 25	4 x 4½	7 25	6 x 6½	10 25
1½ x 4½	1 25	2½ x 2½	70	2½ x 8½	6 50	3 x 7	8 50	4 x 5	7 75	6 x 7	10 50
1½ x 4½	1 40	2½ x 3	1 00	2½ x 9	7 00	3 x 8	8 75	4 x 5½	8 50	6 x 8	10 75
1½ x 5	1 75	2½ x 3½	1 15	2½ x 9½	7 50	3 x 9	9 00	4 x 6	9 00	6 x 9	11 00
1½ x 5½	2 15	2½ x 3½	1 30	2½ x 10	8 00	3 x 10	10 50	4 x 6½	9 25	6 x 10	11 50
1½ x 6	2 75	2½ x 3½	1 45	2½ x 11	8 75	3 x 11	12 00	4 x 7	9 50	6 x 11	12 00
1½ x 6½	3 25	2½ x 4	1 60	2½ x 12	10 00	3 x 12	12 50	4 x 8	9 75	6 x 12	14 00
1½ x 7	4 25	2½ x 4½	1 75	2½ x 2½	1 25	3½ x 3½	3 50	4 x 9	10 00	7 x 7	10 75
1½ x 7½	4 50	2½ x 4½	2 00	2½ x 3	1 75	3½ x 3½	4 00	4 x 10	11 00	7 x 7½	10 75
1½ x 8	4 75	2½ x 4½	2 25	2½ x 3½	2 00	3½ x 3½	4 50	4 x 11	12 00	7 x 8	11 00
1½ x 8½	5 50	2½ x 5	2 75	2½ x 3½	2 25	3½ x 4	5 25	4 x 12	13 00	7 x 9	11 25
1½ x 9	6 00	2½ x 5½	2 85	2½ x 3½	2 50	3½ x 4½	5 50	4½ x 4½	7 50	7 x 10	12 00
1½ x 9½	6 75	2½ x 5½	3 00	2½ x 4	3 00	3½ x 4½	6 00	4½ x 5	8 25	7 x 11	12 50
1½ x 10	7 25	2½ x 6	3 40	2½ x 4½	3 25	3½ x 4½	6 50	4½ x 5½	8 75	8 x 8	12 00
1½ x 11	8 00	2½ x 6½	3 65	2½ x 4½	3 75	3½ x 5	7 25	4½ x 6	9 25	8 x 9	12 50
1½ x 12	9 00	2½ x 6½	3 90	2½ x 4½	4 25	3½ x 5½	7 50	4½ x 6½	9 50	8 x 10	13 00
2 x 2	60	2½ x 7	4 75								

All Larger. Special Prices.



No. 3604.

Galvanized Oil Waste Cans.

Self-Closing Cover.

WITH IMPROVED SPRING ATTACHMENT.

The "Iron-Clad" Oil Waste Cans are made without the use of Solder and are galvanized after being put together. They are recommended by the leading insurance companies.

Code Word.	List No.	Round.	List Price.
<i>Ancestral</i>	3604	No. 1, 11½x15 inches, per doz.....	\$18.00

Round.

Made to Order Only.

<i>Dab</i>	554	No. 2, 12x18 inches, per doz.....	24.00
<i>Dabble</i>	555	" 3, 13x20 " "	28.00
<i>Daft</i>	556	" 4, 14x22 " "	36.00
<i>Dagger</i>	557	" 5, 16x24 " "	42.00
<i>Daily</i>	558	" 6, 18x26 " "	56.00
<i>Daintily</i>	559	" 7, 20x30 " "	90.00
<i>Daisy</i>	560	" 8, 24x36 " "	130.00

Rectangular.

			Length. In.	Width. In.	Depth. In.	
<i>Daker</i>	561	No. 30, per doz.	30	15	20	70.00
<i>Dale</i>	562	" 40, " "	20	18	24	90.00
<i>Daily</i>	563	" 50, " "	24	20	30	132.00
<i>Damage</i>	564	" 60, " "	26	22	30	140.00
<i>Damaging</i>	565	" 70, " "	28	24	34	170.00
<i>Damask</i>	566	" 80, " "	30	24	36	190.00

The Model Oil Filter.

It can be operated with or without heat, although it is preferable to use heat at all times, as it greatly facilitates the flow of oil, and assists in separating it from all sediment, grit and dirt.

The steam heating pipes are independent of filter. We place them on top of the stand, under the filter, where the coil gives all the heat required and can be easily connected or disconnected. By doing this we avoid all trouble that is caused by defective and leaky joints where steam pipes pass through wall of filter.

It is self cleaning, as it is so constructed that all dirt, grit and sediment in the oil as it passes through the separating chambers is trapped to the bottom and is drawn off through a waste cock.

The supply of waste oil to separating chamber can be regulated to feed fast or slow. All heavy or gummy oils require more time to filter than light oils.

It can be used for an oil tank, for the clean oil chamber is large enough to hold all the oil required in an engine room.



No. 3634.

<i>Blown</i>	3454	10 gallons.....	35.00
<i>Blubber</i>	3455	30 "	50.00
<i>Blubbered</i>	3456	60 "	65.00

Larger Sizes Made to Order.



No. 3834.

Oiler Sets.

These Engineers' Sets are made of heavy brass and handsomely finished.

Code Word.	List No.	List Price.
<i>Blessing</i>	3834 Five Pieces, Brass.....	\$6.00
<i>Blest</i>	3835 Six " "	9.00
<i>Blight</i>	853 Five " Nickel.....	8.00
<i>Blighted</i>	854 Six " "	11.00



No. 3838.

Engineers' Fillers, Brass.

<i>Blessedly</i>	3838 Heavy Brass, One Quart, each.....	2.00
<i>Blessor</i>	3839 " " Two Quarts "	3.00



No. 3452.

Engineers' Fillers, Steel.

<i>Blistered</i>	3452 Pint Fillers, 4½ in. diameter, 3½ in. high, Screw Top, per doz.....	14.00
<i>Blistering</i>	3453 Quart Fillers, 5 in. diameter, 5 in. high, Screw Top, per doz.....	20.00

Brass.

<i>Blistery</i>	3450 1½ Pint Fillers, 4½ in. diameter, 4 in. high, Screw Top, per doz.....	22.00
<i>Blithe</i>	3451 Quart Fillers, 5 in. diameter, 5 in. high, Screw Top, per doz.....	30.00

Steel.

<i>Bled</i>	3840 Steel Oiler, 4½ in. diam., 3 in. nozzle, per doz....	9.25
<i>Blemish</i>	3841 " 4½ " 9 " "	10.50



No. 3840.

Brass.

<i>Bless</i>	3842 Brass Oilers, 4½ in. diam., 3 in. nozzle, per doz..	12.00
<i>Blessed</i>	3843 " 4½ " 9 " "	14.00



No. 3844.

Oiler Sets—(Continued).

		Steel.		List Price.
Code Word.	List No.			
<i>Blatter</i>	3844	Steel Oiler, 2½ in. diam., 2½ in. nozzle, per doz.		\$4.50
<i>Blaze</i>	3845	" 3½ " 3 "		5.50
<i>Blazed</i>	3846	" 3½ " 9 "		6.50
<i>Blazer</i>	3847	" 3½ " 3 "		7.50
<i>Blazing</i>	3848	" 3½ " 9 "		8.50

Brass.

<i>Blazon</i>	3849	Brass Oilers, 2½ in. diam., 2½ in. nozzle, per doz.	6.50
<i>Bleat</i>	3850	" 3½ " 3 "	8.00
<i>Bleating</i>	3851	" 3½ " 9 "	9.20

Upright Locomotive Oiler.

The flow of oil from this is controlled by a valve so the oil only runs out when you press the thumb piece on top of the handle.



No. 3852.

Brass.

<i>Blast</i>	3852	1 Pint, Brass, with valve, per dozen	36.00
<i>Blasted</i>	3853	2 " " " "	48.00
<i>Blastcr</i>	3854	3 " " " "	60.00
<i>Blasting</i>	3855	1 " " no valve "	24.00
<i>Blastpipe</i>	3856	2 " " " "	36.00
<i>Blatant</i>	3857	3 " " " "	48.00

Tin.

<i>Biology</i>	3858	1 Pint, Tin, with valve, per dozen	24.00
<i>Birch</i>	3859	2 " " " "	33.00
<i>Birchen</i>	3860	3 " " " "	45.00
<i>Bird</i>	3861	1 " " no valve, "	12.00
<i>Birch</i>	3862	2 " " " "	21.00
<i>Blanche</i>	3863	3 " " " "	33.00

Railroad Oiler.

Steel.

<i>Biographer</i>	3864	Pint R. R. Oiler, 3½ in. diam., 5 in. high, 12 in. nozzle, per dozen	14.00
<i>Biographic</i>	3865	Quart R. R. Oiler, 4½ in. diam., 6 in. high, 18 in. nozzle, per dozen	18.00

Brass.

<i>Biographical</i>	3866	Pint R. R. Oiler, 3½ in. diam., 5 in. high, 12 in. nozzle, per dozen	18.00
<i>Biography</i>	3867	Quart R. R. Oiler, 4½ in. diam., 6 in. high, 18 in. nozzle, per dozen	21.00



No. 3864.

CONSTRUCTION MATERIAL.



No. 2348

Insulators—Glass.

Code Word.	List No.	List Price
<i>Elm</i>	2348 Regular, per 1,000.....	\$40.00
Packed 250 in a barrel.		



No. 2349

<i>Elongate</i>	2349 Deep Groove, per 1,000.....	45.00
Packed 200 in a barrel.		



No. 2350

<i>Elopement</i>	2350 Western Union, per 1,000.....	50.00
Packed 200 in a barrel.		



No. 2351

Insulators—Glass—(Continued)

Code Word.	List No.	List Price.
<i>Eloquence</i>	2351 Pony, per 1,000	\$22.50
	Packed 300 in a barrel.	



No. 2352

<i>Eloquent</i>	2352 Double Petticoat, per 1,000	55.00
	Packed 165 in a barrel.	



No. 3872

<i>Billion</i>	3872 Deep Groove, Double Petticoat, per 1,000	50.00
	Packed 175 in a barrel.	



No. 3719

Insulators—Glass—(Continued).

Code Word.	List No.	List Price.
<i>Beamless</i>	3719 Extra D. G. , D P., per 1,000.....	\$50.00
Packed 165 in a barrel.		



No. 2854

<i>Elsewhere</i>	2354 Pony, Double Petticoat, per 1,000.....	27.50
------------------	---	-------



No. 2334

<i>Emmeline</i>	2334 National Pony, per 1,000.....	40.00
-----------------	------------------------------------	-------



No. 2335

<i>Eminent</i>	2335 Pony Duplex, per 1,000.....	45.00
----------------	----------------------------------	-------



No. 15301.—

Insulators—Glass —(Continued).**Hemingray.**

Code Word.	List No.	List Price. per 1,000.
<i>Moravia</i>	15300 No. 3, Regular.....	\$ 36.00
<i>Morhead</i>	15301 No. 7 Standard.....	32.00

Packed 250 in a barrel.



No. 15302.—

<i>Morconi</i>	15302 Standard, deep groove.....	36.00
----------------	----------------------------------	-------

Packed 250 in a barrel.



No. 15305.

<i>Morganton</i>	15305 Deep groove, double petticoat.....	40.00
------------------	--	-------

Packed 200 in a barrel.



No. 15308.-

Insulators—Glass—(Continued).**Hemingray.**

Code Word.	List No.	List Price. per 1,000.
<i>Morian</i>	15308	Street railway, deep groove, double petti coat..... \$ 50.00
		Packed 200 in a barrel.



No. 15310.—

<i>Moro</i>	15310	Western Union Double petticoat, test....	50.00
-------------	--------------	--	--------------

The points or teats on the lower rim of the petticoat attract the water on the outer surface of the insulator into drops. The water drops from these points, thereby preventing the moisture from creeping up on the inner petticoat, and thence to the pin.

Other insulators can be made in same manner at special prices.



No. 15812.—

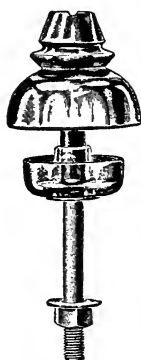
<i>Morell</i>	15312	Pony.....	23.00
		Packed 300 in a barrel.	



No. 2336

Insulators—Glass—(Continued).

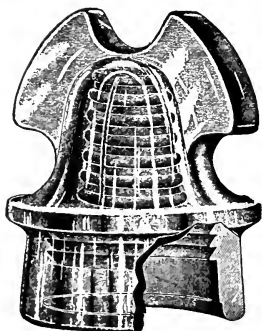
Code Word.	List No.	List Price.
<i>Emissary</i>	2336 Deep Groove Duplex, per 1,000.....	\$50.00



No. 9200—Open.

<i>Emulating</i>	9200 Glass Oil Insulator, complete, iron pin, per 100.	80.00
<i>Emulation</i>	9308 " " " wooden pin, "	50.00

The price for No. 9200 includes 10 quarts of oil and 5 pounds of hemp or oakum, and for No. 9308 includes 12 quarts of oil.



No. 9315.

<i>Accomplish</i>	9315 Cable Glass Insulator, per 1,000.....	\$40.00
-------------------	--	---------



No. 6793.

Insulators—Glass—(Continued).

Code Word.	List No.	List Price.
<i>Emulate</i>	6793	Double Groove Glass Insulator, per 1,000.....\$82.00

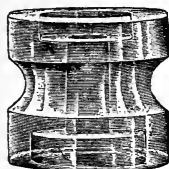


No. 2337.

No. 1, Glass Insulating or Break Knob.

1½ inches long, 1½ inches wide, ⅝ inch hole.

<i>Empty</i>	2337	Per 1,000.....	20.00
--------------	------	----------------	-------

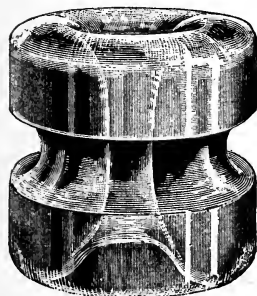


No. 2338.

No. 2, Glass Insulating or Break Knob.

1½ inches long, 2 inches wide, ⅝ inch hole.

<i>Emptying</i>	2338	Per 1,000.....	30.00
-----------------	------	----------------	-------



No. 2339-

No. 3, Glass Insulating or Break Knob.

For insulating span wires, guy wires, arc lamps, etc.

2½ inches long, 2 inches wide, ⅝ inch hole.

<i>Empurple</i>	2339	Per 1,000.....	40.00
-----------------	------	----------------	-------



No. 24465.

Glass Insulators.—(Continued.)**Break Knob.**

Takes a One Inch Cable.

Code Word.	List No.		List Price.
<i>Soleplate</i>	24465	Per 1,000	\$80.00

3½ in. long; 2½ in. wide.

Liquid Insulator.

<i>Solere</i>	24446	Per 1,000	500.00
---------------	-------	-----------------	--------

Made all in one piece.

Weight, per piece, 30½ ozs. Weight; per 100, packed, 2210 lbs.
Packed 100 in a barrel.



No. 24446.

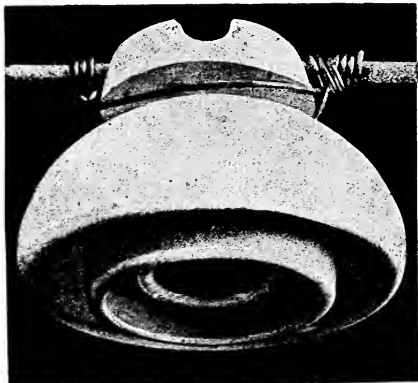
Locke Triple Petticoat Insulators.

For High Voltages.

China Insulator.

<i>Solert</i>	24467	Each50
---------------	-------	------------	-----

Dimensions;—Diameter, 5¼ inches; Height, 3 inches.



No. 24467.

Glass Insulator.

<i>Solanship</i>	24468	Each15
------------------	-------	------------	-----

Dimensions;—Diameter, 4½ inches; height, 3½ inches; 8½ inches of surface between wire and pin.



No. 24468.

Insulators—Porcelain.

The dimensions are as nearly accurate as possible, but owing to the fact that porcelain shrinks when baked, and the shrinkage is not at all times the same, Insulators may be a little larger or smaller than figures given.



No. 3458.

Code Word.
Blissful

List No. 3458 Per 1,000 List Price. \$3.60

R. T. & Sons No. 7. $\frac{3}{8}$ in. wide and $\frac{1}{2}$ in. high.
Groove, $\frac{1}{8}$ in. deep, $\frac{3}{8}$ in. wide.



No. 3460.

Blissless

3460 Per 1,000..... 3.60

R. T. & Sons No. 6. $\frac{1}{2}$ in. wide and $\frac{1}{4}$ in. high.
Groove, $\frac{1}{8}$ in. deep, $\frac{3}{8}$ in. wide.



No. 1928.

Bilge

1928 Per 1,000..... 4.00

R. T. & Sons No. 8. $1\frac{1}{8}$ in. wide, $\frac{1}{2}$ in. high.
Groove, $\frac{5}{8}$ in. deep, $\frac{3}{8}$ in. wide.

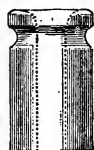


No. 1929.

Bilgeduct

1929 Per 1,000..... 4.00

R. T. & Sons No. 11. $1\frac{1}{4}$ in. wide, $\frac{1}{2}$ in. high.
Groove, $\frac{1}{4}$ in. deep, $\frac{1}{2}$ in. wide.

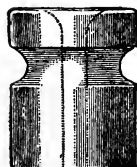


No. 1930.

Bilged

1930 Per 1,000..... 5.00

R. T. & Sons No. 9. $\frac{3}{8}$ in. wide, $1\frac{1}{8}$ in. high.
Groove, $\frac{1}{8}$ in. deep, $\frac{3}{8}$ in. wide.



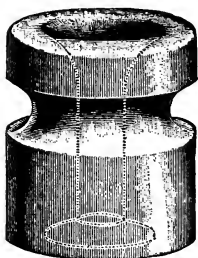
No. 3462.

Bluesness

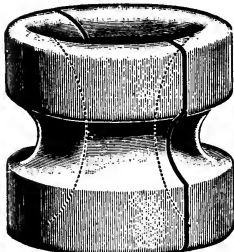
3462 Per 1,000..... 5.25

R. T. & Sons No. 5. $1\frac{1}{8}$ in. wide, $1\frac{1}{8}$ in. high.
Groove, $\frac{1}{8}$ in. deep, $\frac{1}{8}$ in. wide.

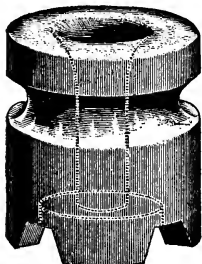
About 5,000 No. 5 fill a barrel. 500 are packed in boxes. When packed in boxes 50 cents extra per 1,000 is charged.



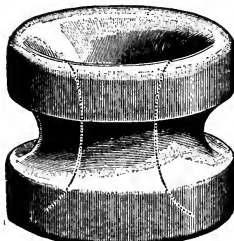
No. 3464.



No. 2575.



No. 1923.



No. 3466.

Insulators—Porcelain—(Continued.)

Code Word.	List No.	List Price.
<i>Blue</i>	3464 Per 1,000, in barrel lots.....	\$8.00

R. T. & Sons No. 4. $1\frac{1}{8}$ in. wide, $1\frac{1}{2}$ in. high.
Groove, $\frac{1}{4}$ in. deep, $\frac{3}{8}$ in. wide.

About 2,000 to 2,300 make a barrellfull. 500 fill a box. 50 cents extra per 1,000 charged when packed in boxes.

<i>Doncon</i>	2575 Split, per 1,000.....	36.00
---------------	-----------------------------------	--------------

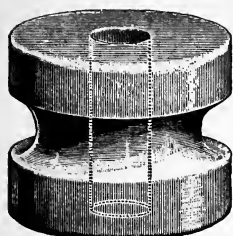
Special Split Insulator, $1\frac{1}{2}$ in. wide, $1\frac{3}{8}$ in. high.
Groove, $\frac{1}{4}$ in. deep, $\frac{1}{2}$ in. wide.

<i>Daytime</i>	1923 Per 1,000	15.00
----------------	-----------------------------	--------------

R. T. & Sons No. 10. $1\frac{1}{2}$ in. wide, $1\frac{1}{2}$ in. high.
Groove, $\frac{3}{16}$ in. deep, $\frac{3}{8}$ in. wide.

<i>Blunder</i>	3466 Per 1,000	24.00
----------------	-----------------------------	--------------

R. T. & Sons No. 36. $1\frac{1}{2}$ in. wide, $1\frac{1}{2}$ in. high.
Groove, $\frac{1}{4}$ in. deep, $\frac{3}{8}$ in. wide.

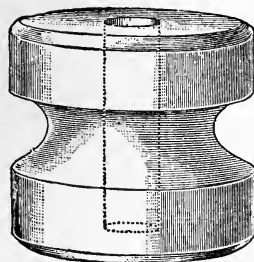


No. 3648.

Insulators—Porcelain--(Continued.)

Code Word.	List No	Per 1,000	List Price.
<i>Blabbering</i>	3468		\$20.00

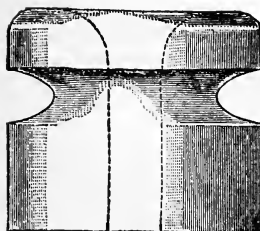
R. T. & Sons No. 15. $1\frac{1}{8}$ wide, $1\frac{1}{8}$ high.
Groove, $\frac{5}{16}$ in. deep, $\frac{3}{8}$ in. wide



No. 1924.

<i>Dazzle</i>	1924	Per 1,000	20.00
---------------	------	-----------	-------

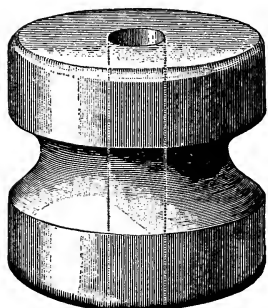
R. T. & Sons No. 24. $1\frac{1}{2}$ in. wide, $1\frac{1}{8}$ in. high.
Groove, $\frac{1}{4}$ in. deep, $\frac{1}{2}$ in. wide.



No. 1925.

<i>Bilious</i>	1925	Per 1,000	20.00
----------------	------	-----------	-------

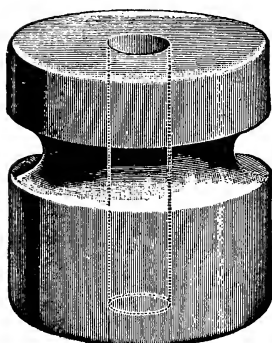
R. T. & Sons No. 3. 2 in. wide, $1\frac{1}{4}$ in. high.
Groove $\frac{3}{8}$ in. deep, $\frac{3}{8}$ in. wide.



No. 3470.

Insulators—Porcelain—(Continued.)

Code Word.	List No.	List Price.
<i>Bluffness</i>	3470 . Per 1,000.....	\$35.00
	R. T. & Sons No. 26. 2 $\frac{7}{8}$ in. wide, 1 $\frac{1}{2}$ in. high. Groove, $\frac{1}{8}$ in. deep, $\frac{1}{4}$ in. wide.	



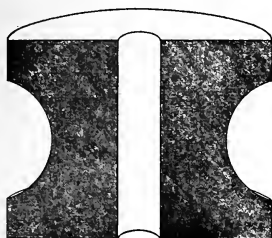
No. 1926.

<i>Bilked</i>	1926 Per 1,000.....	27.00
	R. T. & Sons No. 2. 2 in. wide, 2 $\frac{1}{4}$ in. high. Groove, $\frac{1}{8}$ in. deep, $\frac{7}{16}$ in. wide.	

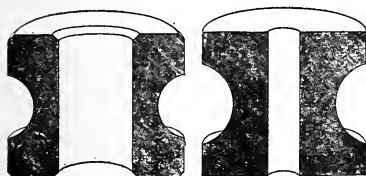


No. 1927.

<i>Bilk</i>	1927 Per 1,000.....	53.00
	R. T. & Sons No. 1. 2 in. wide, 3 in. high. Groove, $\frac{1}{4}$ in. deep, $\frac{3}{8}$ in. wide.	



25429



25430

25431



25432

25433



25434

25435



25436

25437



25438

25439

Special Porcelain Insulators.

The figures as to dimensions and weight of Insulators is as accurate as the nature of porcelain will allow, and in actual practice results may vary a trifle.

- Code Word. List No.
- Accessarily* **25429** P101 Insulator
 3½ inches high; 4 inches wide; ¾ inch hole; 1½ inch groove. Weight per 1000, 2780 pounds. A barrel contains about 125.
- Accessarily* **25430** P102 Insulator
 2½ inches high; 2½ inches wide; 1½ inch hole; ¾ inch groove. Weight per 1000, 675 pounds. A barrel contains about 400.
- Accessarily* **25431** P103 Insulator
 2½ inches high; 2½ inches wide; ¾ inch hole; 1½ inch groove. Weight per 1000, 660 pounds. A barrel contains about 400.
- Accessability* **25432** P104 Insulator
 1¾ inch high; 2½ inch wide; ¾ inch hole; ¾ inch groove. Weight per 1000, 380 pounds. A barrel contains about 700.
- Accessional* **25433** P104½ Insulator
 1½ inches high; 2 inches wide; ¾ inch hole; ¾ inch groove. Weight per 1000, 380 pounds. A barrel contains about 900.
- Accessorial* **25434** P105 Insulator
 1½ inches high; 2½ inches wide; 1½ inch hole; 1 inch groove. Weight per 1000, 350 pounds. A barrel contains about 700.
- Accessarily* **25435** P106 Insulator
 1½ inch high; 1½ inch wide; ¾ inch hole; 1½ inch groove. Weight per 1000, 115 pounds. A barrel contains about 2200.
- Accessoryness* **25436** P107 Insulator
 1 inch high; 1½ inches wide; ¾ inch hole; ¾ inch groove. Weight per 1000, 160 pounds. A barrel contains about 2500.
- Accidence* **25437** P108 Insulator
 ¾ inch high; 1½ inches wide; ¾ inch hole; ¾ inch groove. Weight per 1000, 75 pounds. A barrel contains about 3000.
- Accidentalism* **25438** P109 Insulator
 ¾ inch high; 1½ inch wide; ¾ inch hole; ¾ inch groove. Weight per 1000, 30 pounds. A barrel contains about 8000.
- Accidentality* **25439** P110 Insulator
 1 inch high; 1½ inch wide; ¾ inch hole; ¾ inch groove. Weight per 1000, 105 pounds. A barrel contains about 2200.

Prices Quoted on Application.

Special Porcelain Insulators.—Continued.



25440

25441



25442

25443



25444

25445

25446



25447



25448



25449



25450



25451

25452

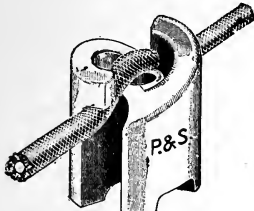
25453



25454

- Code Word. List No.
- Accidentally* **25440** P1 Insulators.....
 2½ inches high; 2 inches wide; ⅞ inch hole; ⅝ inch groove.
 Weight per 1000, 500 pounds. A barrel contains about 600.
- Accidentalness* **25441** P2 Insulator.....
 1½ inches high; 1½ inches wide; ⅝ inch hole; ⅞ inch groove.
 Weight per 1000, 287 pounds. A barrel contains about 900.
- Accidentiary* **25442** P3 Insulator.....
 1½ inches high; 1½ inches wide; ⅝ inch hole; ⅞ inch groove.
 Weight per 1000, 287 pounds. A barrel contains about 900.
- Accipenser* **25443** P4 Insulator.....
 1½ inches high; 1½ inches wide; ⅞ inch hole; ⅞ inch groove.
 Weight per 1000, 200 pounds. A barrel contains about 2500.
- Accipit* **25444** P5 Insulator.....
 1½ inch high; 1½ inches wide; ¼ inch hole; ⅞ inch groove.
 Weight per 1000, 80 pounds. A barrel contains about 4500.
- Accipiter* **25445** P6 Insulator.....
 ⅝ inch high; 1½ inch wide; ⅞ inch hole; ⅞ inch groove. Weight
 per 1000, 30 pounds. A barrel contains about 9000.
- Acclinate* **25446** P7 Insulator.....
 1½ inch high; 1½ inch wide; ⅞ inch hole; ⅞ inch groove. Weight
 per 1000, 30 pounds. A barrel contains about 9000.
- Acclimation* **25447** P8 Insulator.....
 1½ inch high; ⅝ inch wide; ⅞ inch hole; ⅞ inch groove. Weight
 per 1000, 30 pounds. A barrel contains about 9000.
- Acclimatenment* **25448** P9 Insulator.....
 1½ inches high; ⅝ inch wide; ⅞ inch hole; ⅞ inch groove.
 Weight per 1000, 26 pounds. A barrel contains about 9000.
- Acclimatize* **25449** P111 Insulator.....
 1½ inches high; 1½ inches wide; ¼ inch hole; ⅞ inch groove.
 Weight per 1000; 195 pounds. A barrel contains about 1500.
- Acclimature* **25450** P151 Bushing length under head 1 inch; ⅞ inch
 wide; ⅞ inch hole.
- Acclivous* **25451** P152 Bushing length under head ¼ inch; ⅞ inch
 wide; ⅞ inch hole.
- Acclroy* **25452** P153 Bushing length under head ⅝ inch; 1½
 inch; wide; ⅞ inch hole.
- Acconst* **25453** P154 Bushing length under head ⅝ inch; 1½
 inches wide; ⅞ inch hole.
- Accoil* **25454** High Potential Insulator, hard burned and
 thoroughly vitrified.

Prices Quoted on Application.

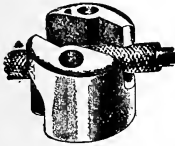


No. 1.

Insulators—Porcelain—(Continued).

Wiring Insulator.

Code Word.	List No.	List Price.
<i>Enabling</i>	1 Glazed, for No. 6 and No 8 wire, per 100.....	\$2.40
<i>Enact</i>	1½ Unglazed, " 6 " 8 " "	1.50
<i>Enacted</i>	2 Glazed, " 10 to No. 16 " "	1.80
<i>Enacting</i>	2½ Unglazed. " 10 " 16 " "	1.20

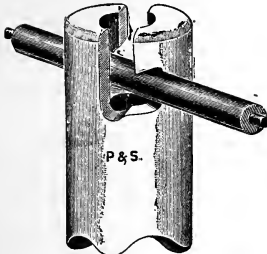


No. 8907.

Wiring Insulator for Large Wires.

The Insulator will hold insulated wires or cables from $\frac{1}{4}$ to $\frac{1}{2}$ inch outside diameter.

<i>Emulsive</i>	8907 Glazed, per 100.....	7.50
<i>Enale</i>	8908 Unglazed, "	4.50

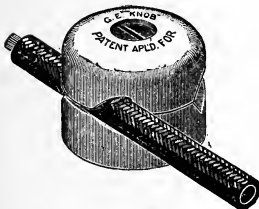


No. 8909.

"Economic" Insulators.

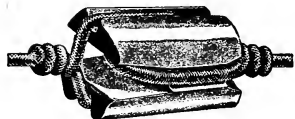
This is a modification of Nos. 1 and 2 Wiring Insulators. By an improved construction it is, without sacrificing strength, made much smaller, and is therefore sold at a much lower price.

<i>Emulgent</i>	8909 For No. 1 wire and smaller, glazed, per 100....	1.80
<i>Emulsion</i>	8910 " 6 " " glazed. "	1.20



No. 6580.

<i>Emulator</i>	6580 Insulating Knob for wire, $\frac{1}{4}$ in. diam., per 100.	3.00
-----------------	--	------



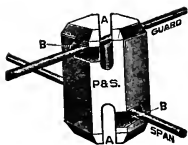
No. 8.



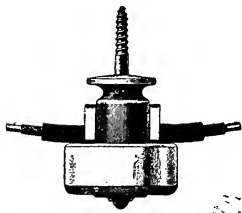
No. 9266.



No. 2341.



No. 25000.



No. 2566.

P. & S. Circuit Breaker.

The construction of this Circuit Breaker is such as to insure high insulation and great strength. We furnish a large size for electric light wires, and smaller size for electric railway span wires, guard wires, curves, etc.

Code Word.	List No.	List Price.
<i>Emptied</i>	8 Small size, each per 100	\$3.00
<i>Emptiness</i>	9 Large " " " "	5.00

<i>Empress</i>	9266 "Victor" Split Insulator, per 1000	35.00
----------------	---	-------

<i>Empowering</i>	2341 Rubber Hook Insulator, each	.15
-------------------	----------------------------------	-----

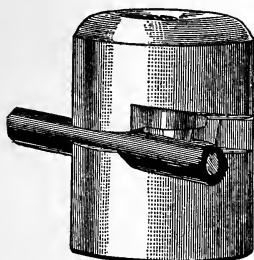
P. & S. Guard Wire Suspension Insulators.

	List Price.
<i>Solicitant</i>	Per 100.
25000 P. & S. No. 60, Glazed	\$2.20

The "Safety" Wire Holder.

Made in three sizes, Nos. 1, 2 and 3; to take wire as follows: No. 1 takes from No. 18 to No. 12 B. & S. gauge; No. 2 takes from No. 12 to No. 6 B. & S. gauge; No. 3 takes from No. 6 to No. 0 B. & S. gauge. They are furnished with different screws to suit the class of work required, viz., No. A, 1 inch wood screw for wood work; No. B, 1 1/4 inch wood screw for plastered ceiling; No. C, 1/2 inch machine screw for iron work.

<i>Devoy</i>	2566 No. 1, with 1 inch wood screw, per 100	10.00
<i>Dexter</i>	2567 " 2, " 1 " " " "	10.00
<i>Dexterity</i>	2568 " 1, " 1 1/4 " " " "	10.00
<i>Dexterous</i>	2569 " 2, " 1 1/4 " " " "	10.00
<i>Diadem</i>	2570 " 1, " 1/2 " machine screw, " "	10.00
<i>Diagonal</i>	2571 " 2, " 1/2 " " " " "	10.00
<i>Diagram</i>	2572 " 3, " 1 " wood screw, " "	15.00
<i>Dial</i>	2573 " 3, " 1 1/4 " " " " "	15.00
<i>Dialect</i>	2574 " 3, " 1/2 " machine screw, " "	15.00

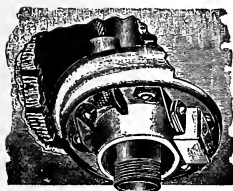


No. 8742.

The Security Insulator.

Code Word.	List No.	List Price.
<i>Luminous</i>	8742 Security Insulator, $1\frac{1}{2} \times 1\frac{1}{2}$ inch, No. 2 to No. 12 wire, per 1,000	\$30.00

Combination Fixture Cut-out and Outlet Insulator.



No. 64.

As will be seen by the cut, it is fastened to the lathing, and when the plaster is put on, the Cut-out projects slightly through it. The wires pass through holes in the china plate, and it is impossible for them to touch the gas pipe or the lath or plaster. It is fitted with brass work for connecting the wires or fuses, and is furnished either with fuse plugs, which cover the fuses, or may be fused in the ordinary way.

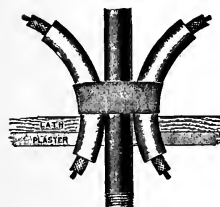
<i>Electioneer</i>	64 Each	.15
<i>Exacted</i>	26 Fuse Plugs, each	.05

We also furnish the China Plate for No. 64 with three holes for wires, to be used without brass work.

<i>Elector</i>	644 Each	.11
----------------	----------	-----

Outlet Insulator.

Small curved china tubes for outlets, which effectually insulate wires from the gas pipe and lath and plaster. They are fastened to the pipe with tape in the usual way, as shown in the cut.

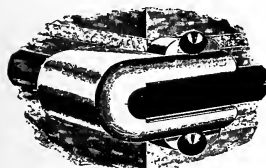


No. 50.

<i>Election</i>	50 Per 100	2.00
-----------------	------------	------

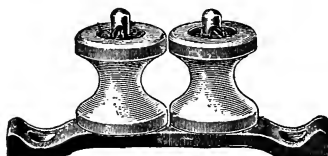
Corner Insulator.

For the protection and insulation of heavy wires and cables when passing around corners or over cornices. It has a hole large enough for an insulated wire $\frac{1}{4}$ inch outside diameter.



No. 61.

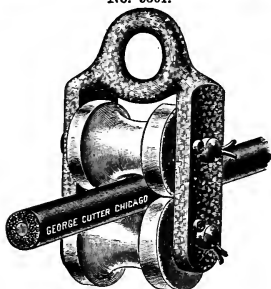
<i>Empoisoning</i>	61 Glazed, each	.25
--------------------	-----------------	-----



No. 9301.

Tree Insulators.

Code Word.	List No.	List Price.
<i>Elite</i>	9301 Simplex Tree Insulator, each	.50



No. 25094.

The Cutter Swinging Tree Insulator.

It is readily hung from a hook or wire twisted through the loop at the top, and by lengthening this wire the device will adapt itself to a wide range of conditions. It can also be used for supporting arc light wires under iron roofs.

<i>Saniferous</i>	25094 Per Dozen	2.00
-------------------	-----------------	------



No. 9.

The cut shows our No. 9 Circuit Breaker used as a Tree Insulator.

<i>Emptiness</i>	9 P. & S. Tree Insulator, per 100	5.00
------------------	-----------------------------------	------



No. 2855.

Gem Wire Holders, with Bolt and Nut.

Wood Insulation.

<i>Effort</i>	2853 $\frac{1}{8}$ inch opening, per 100	10.00
<i>Effrontery</i>	2854 $\frac{1}{2}$ " " "	12.00



No. 2853.

Porcelain Insulation.

<i>Effulgent</i>	2855 $\frac{3}{8}$ inch opening, per 100	12.00
<i>Effuse</i>	2856 $\frac{1}{2}$ " " "	12.00
<i>Effusion</i>	2857 $\frac{3}{4}$ " " "	17.50

Gem Wire Holders, with Bolt and Nut—

(Continued).

Opalescent Glass Insulation.

Code Word.	List No.		List Price.
<i>Effusive</i>	2858	$\frac{1}{2}$ inch opening, per 100.	\$22.50
<i>Egbert</i>	2859	$\frac{3}{8}$ " " "	22.50
<i>Egg</i>	2860	$\frac{1}{2}$ " " "	27.50
<i>Egyptiam</i>	2861	$\frac{3}{4}$ " " "	27.50
<i>Egyptist</i>	2862	1 " " "	27.50
<i>Egress</i>	2863	$1\frac{1}{2}$ " " "	60.00
<i>Egyptian</i>	2864	$1\frac{1}{2}$ " " "	70.00
<i>Either</i>	02865	$1\frac{1}{2}$ " " "	80.00
<i>Eject</i>	02866	2 " " "	90.00



No. 481.

Gem Wire Holders, with Wood Screw.

Porcelain Insulation.

<i>Ejected</i>	481	$\frac{1}{8}$ inch opening, per 100.	10.00
<i>Ejecting</i>	482	$\frac{1}{4}$ " " "	10.00
<i>Ejection</i>	483	$\frac{3}{8}$ " " "	15.00

These Wire Holders are suitable for indoor or outdoor use.



No. 487.

Opalescent Glass Insulation.

<i>Ejectment</i>	487	$\frac{1}{2}$ inch opening, per 100.	20.00
<i>Elaborate</i>	488	$\frac{3}{8}$ " " "	20.00
<i>Eclipse</i>	489	$\frac{1}{2}$ " " "	25.00
<i>Elastic</i>	490	$\frac{3}{4}$ " " "	25.00
<i>Elasticity</i>	491	1 " " "	25.00
<i>Elate</i>	493	$1\frac{1}{2}$ " " "	50.00
<i>Elated</i>	494	$1\frac{1}{2}$ " " "	60.00
<i>Elation</i>	484	$1\frac{1}{2}$ " " "	75.00
<i>Elbow</i>	485	2 " " "	85.00

Wood Insulation.

The Fletcher Gem Wire Holders, with wood insulation, are suitable for every description of inside work, but are not recommended for outdoor use.



No. 483.

<i>Elderly</i>	478	$\frac{1}{8}$ inch opening, per 100.	8.33
<i>Eldest</i>	479	$\frac{1}{4}$ " " "	10.00

"Tree" Wire Holder.

Opalescent Glass Insulation.

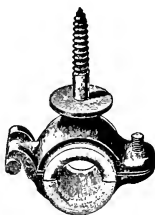
By passing a wire through the hole in boss of the "Tree" Wire Holder, it can be adjusted to any desired position.



No. 492.

<i>Elect</i>	492	1 inch opening, per 100.	25.00
--------------	-----	--------------------------	-------

Flanged at ends.



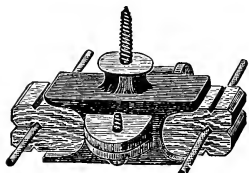
No. 2915.

"Jumbo" Wire Holders.**Opalescent Glass Insulation.**

The Fletcher "Jumbo" Wire Holder is sufficiently strong to support a heavy cable, and adds materially to the neat appearance of wiring-work.

Code Word.
Electing

List No. List Price.
2915 1 inch opening, per 100.....\$25.00



No. 496.

*Cider***Gem Wire Holders.**

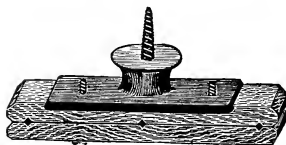
496 Gem Wire Holder, per 100 10.00



No. 497.

Churn

497 Gem Wire Holder, per 100..... 5.00



No. 498.

Churchish

498 Gem Wire Holder, per 100 6.50

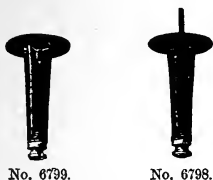


No. 2396.

Insulated Wood Risers.

The Fletcher Insulated Wood Risers are used in fitting up electric light stations and power houses with wire or copper rods.

<i>Chuffness</i>	2396	$\frac{1}{2}$ inch, Porcelain Insulation, each.....	.25
<i>Chuffy</i>	2397	$\frac{3}{8}$ " " " " .....	.25
<i>Chump</i>	2398	$\frac{1}{2}$ " Glass " " .....	.30
<i>Chunk</i>	2399	$\frac{3}{4}$ " " " " .....	.30
<i>Church</i>	2400	$\frac{7}{8}$ " " " " .....	.40
<i>Churchdom</i>	2401	1 " " " " .....	.40
<i>Churching</i>	2402	1 " " " " .....	.50
<i>Churchland</i>	2403	1 $\frac{1}{2}$ " " " " .....	.50
<i>Churchman</i>	2404	1 $\frac{3}{4}$ " " " " .....	.50



The Fletcher Wiring Pendants.

A very neat and strong device for wiring are and incandescent lights, indoors or out. Length, 5 inches; diameter of base plate, 3 inches.

Code Word.	List No.	List Price.
<i>Chud</i>	6798	Fletcher's Wiring Pendant, with screw, each.... \$0.15
<i>Chuff</i>	6799	" " " screw holes, "15

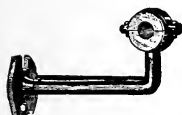
Fletcher's Insulating Iron Pin and Bracket.

These Iron Pins or Brackets are used on poles and cross-arms for running electric light lines or electric street railway feed wires, and do not require tie wires, which might injure the insulation or the line or feeder wire.



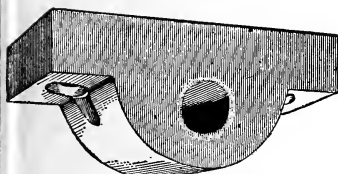
Fletcher's Insulating Iron Pin.

<i>Employable</i>	2931	$\frac{1}{2}$ inch, Glass Insulation, each .....	.25
<i>Employer</i>	2932	$\frac{3}{8}$ " " " " .....	.25
<i>Employing</i>	2933	$\frac{1}{2}$ " " " " .....	.30
<i>Empotson</i>	2934	$\frac{3}{4}$ " " " " .....	.30
<i>Empotsoned</i>	2935	$\frac{1}{2}$ " " " " .....	.30



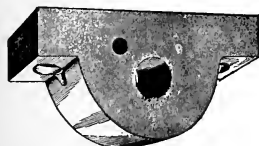
Fletcher's Insulating Iron Bracket.

<i>Emphasize</i>	1857	$\frac{1}{2}$ inch, Glass Insulation, each .....	.30
<i>Emphasizing</i>	1858	$\frac{3}{8}$ " " " " .....	.30
<i>Empire</i>	2923	$\frac{1}{2}$ " " " " .....	.40
<i>Empire</i>	2924	$\frac{3}{8}$ " " " " .....	.40
<i>Empirical</i>	2925	$\frac{1}{2}$ " " " " .....	.40

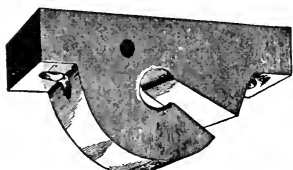


Porcelain Wire Holders.

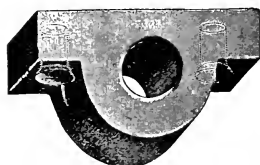
<i>Electrify</i>	2344	Per 1,000.....	27.75
------------------	------	----------------	-------



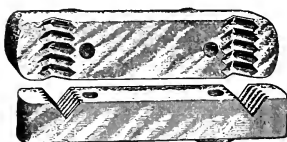
<i>Elias</i>	2345	Per 1,000.....	90.00
--------------	------	----------------	-------



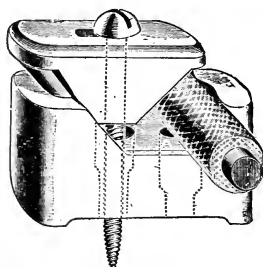
No. 2346-



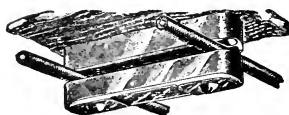
No. 2347-



No. 1157.



No. 3415.



No. 3814.

Porcelain Wire Holders—(Continued).

Code Word.	List No.	List Price.
<i>Elimjah</i>	2346 Per 1,000.....	\$150.00

<i>Eliminate</i>	2347 Per 1,000	90.00
------------------	----------------------	-------

Cleats, Porcelain.

The Duggan Cleat.

<i>Bequeathing</i>	1157	Glazed, will take wire No. 8 to No. 16, per 1,000,	45.00
<i>Bilateral</i>	1159	Glazed, " " 6 " 00, "	47.50
<i>Bilbo</i>	1161	Glazed, " " 16 and " 18, "	45.00

"P. & S." Single Cleat.

This Cleat is designed for use where wires are required to be separated more than 2½ inches.

<i>Etizir</i>	3415	Glazed, for wires with insulation ¼ to ½ inch diameter, per 100.....	5.00
<i>Elk</i>	3416	Unglazed, for wires with insulation ¼ to ½ inch diameter, per 100.....	3.50
<i>Ellen</i>	3417	Glazed, for wires with insulation ¼ to ½ inch diameter, per 100.....	2.50
<i>Elliptic</i>	6800	Unglazed, for wires with insulation ¼ to ½ inch diameter, per 100.....	1.60

"P. & S." China Cleats.

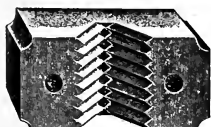
<i>Bereave</i>	3814	Glazed, 2 wire, for No. 8 wire or smaller, per 100	3.80
<i>Bereaving</i>	3815	Unglazed, 2 " " 8 " "	2.50
<i>Novel</i>	3418	Glazed, 3 " " 8 " "	3.80
<i>Novelist</i>	3419	Unglazed, 3 " " 8 " "	2.50
<i>Novelty</i>	3420	Glazed, for No. 6 wire, per 100.....	4.50
<i>Noun</i>	3421	Unglazed, " 6 " " "	3.00



No. 24100.

I X L Cleat.

Code Word.	List No.	List Price.
<i>Slightly</i>	24100 Per 1,000	\$20.00

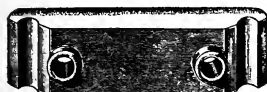


No. 24101.

Duggan One Wire Cleat.

Glazed.

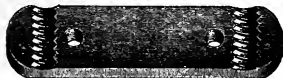
<i>Slight</i>	24101	Holds Wires No. 16 to No. 8, per 1,000...	20.00
<i>Slightly</i>	24102	" " No. 6 to No. 00, " ...	36.00
<i>Slighter</i>	24103	" " No. 000 and larger, " ...	60.00



No. 24107.

The Diamond Porcelain Cleat.

<i>Slightly</i>	24107	Per 1,000	23.00
Takes all Wires from No. 8 to No. 16.			



No. 15325.

"W" Cleat.

<i>Morris</i>	15325	Per 1,000	20.00
---------------	-------	-----------------	-------



No. 24146.

"P & S" China Cleat, Two and Three Wire.

<i>Sludge</i>	24146	Two Wire, glazed, per 100	3.50
<i>Sludger</i>	24147	" " unglazed, "	2.20
<i>Sludgy</i>	24148	Three " glazed, "	3.50
<i>Slue</i>	24149	" " unglazed, "	2.20



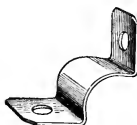
No. 300.



No. 301.



No. 302.



No. 303.

Brass Wiring Cleats.

While these cleats are adapted specially for street car wiring, they will be found very useful in other lines of work.

Code Word.	List No.	List Price Per 1000
<i>Versatile</i>	300 Small.....	\$5.00
<i>Vertebra</i>	301 For No. 16 Wire.....	6.00
<i>Vestment</i>	302 For No. 6 Wire.....	7.00
<i>Vicidly</i>	303 For No. 6 Wire.....	7.00

Wood Cleats.

One Wire.

		Outside Diam. of Wire.	Length in ins.		
<i>Stily</i>	24108	No. 4, $\frac{1}{4}$ -inch,	2	square ends..	4.00
<i>Stim</i>	24109	No. 15, $\frac{1}{8}$ -inch,	2	"	4.10
<i>Stime</i>	24110	Bunched Cleat $\frac{1}{4}$ -inch,	2 $\frac{1}{2}$	beveled ends...	9.35

Two Wire.

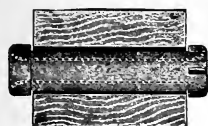
<i>Stininess</i>	24111	No. 1, $\frac{1}{4}$ -inch,	2	square ends...	4.25
<i>Stinoy</i>	24113	No. 3, $\frac{1}{8}$ -inch,	4	beveled ends...	6.10
<i>Stiny</i>	24114	No. 23, $\frac{1}{4}$ -inch,	2	"	9.40
<i>Stiness</i>	24115	No. 5, $\frac{1}{4}$ -inch,	4 $\frac{1}{2}$	"	7.75
<i>Sting</i>	24116	No. 17, $\frac{1}{4}$ -inch,	2	square ends...	5.00
<i>Stinger</i>	24117	No. 19, $\frac{3}{8}$ -inch,	4 $\frac{1}{2}$	beveled ends...	15.00
<i>Stink</i>	24118	No. 6, $\frac{1}{4}$ -inch,	4 $\frac{1}{2}$	"	20.00

Three Wire.

<i>Slipknot</i>	24120	No. 24, $\frac{1}{8}$ -inch,	4	beveled ends	7.00
<i>Slipon</i>	24121	No. 18, $\frac{1}{4}$ -inch,	5	"	8.80

Four Wire.

<i>Slipper</i>	24122	No. 2, $\frac{1}{8}$ -inch,	3 $\frac{1}{2}$	beveled ends	9.25
----------------	-------	-----------------------------	-----------------	--------------	------



No. 013.

	Code Word.	List No.	List Price.
	<i>Arquest</i>	012	Hole for wire 5-16 inch (use 5-8 inch bit to bore joists), length 3 inches, per 100 \$1.80
	<i>Empaling</i>	013	Hole for wire $\frac{3}{8}$ inch (use $\frac{3}{8}$ inch bit to bore joists), per 100..... \$2.00
	<i>Emperor</i>	13	Hole for wire $\frac{3}{8}$ inch (use $\frac{3}{8}$ inch bit to bore joists), per 100 2.25
	<i>Emphasis</i>	14	Hole for wire $\frac{3}{8}$ inch (use 1 inch bit to bore joists), per 100..... 3.25

China Cross-over Tube.

This tube has a head on each end and is designed to be used when wires cross over other wires. The heads tend to hold tube in position.



No. 130.

<i>Empaling</i>	130	$\frac{3}{8}$ inch hole, 3 inches between heads, glazed, per 100.....	4.50
<i>Empanel</i>	130½	$\frac{3}{8}$ inch hole, 3 inches between heads, unglazed, per 100.....	2.50



No. 8801.

<i>Arquest</i>	013½	1 5-8 inches long, 5-16 inch hole, 5-8 inch outside diameter, per 100.....	1.50
<i>Edwin</i>	8801	1½ inches long, $\frac{3}{8}$ inch hole, $\frac{3}{4}$ inch outside diameter, per 100.....	1.60

Porcelain Window Tube.



No. 20.

<i>Empaled</i>	20	6 inches long, $\frac{3}{8}$ inch hole, unglazed, each.....	.06
<i>Empalement</i>	20½	6 " " " glazed, " ".....	.09

Use $\frac{3}{8}$ inch bit to bore holes for them.

Porcelain Window Tube, with Curved End.



No. 37.

This form of Window Tube has a curved end which effectually prevents any water entering through tube, and insures a compliance with the insurance rule requiring a "water loop" in wire. Use $\frac{3}{8}$ inch bit.

<i>Emotive</i>	37	Glazed Window Tubes, curved ends, each.....	.07
<i>Empale</i>	37½	Unglazed " " " ".....	.05

Long Curved End Tubes.

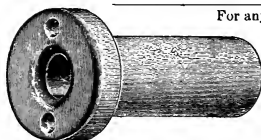


This Tube has a hole $\frac{5}{8}$ inch in diameter, and is $1\frac{1}{2}$ inch outside diameter.

Price List of Each Size, in Cents.

LENGTH UNDER HEAD IN INCHES.	6	8	10	12	14	16	18
Unglazed.....	11	17	23	33	38	46	54

For any of the above furnished Glazed, add 25 per cent.



Code Word. List No.

List Price.
Each.

Emurlice 9327 Floor Insulator, $\frac{5}{8}$ in. hole, $3\frac{1}{2}$ inch tube **.15**

No. 9327.

Awning Insulator.

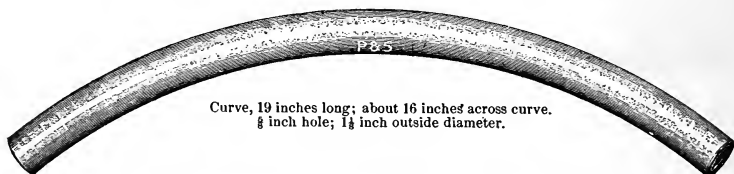
This Insulator is used where a wire passes over an awning or cornice, or around the corner of a building, to protect the insulation of the wire from abrasion.



No. 21

Emotion 8989 $\frac{1}{2}$ Awning Insulator, glazed, each **.07**
Emotional 8998 " " unglazed, each **.05**

Long Curved Tubes, for Awnings, Cornices, Etc.



Curve, 19 inches long; about 16 inches across curve.
 $\frac{5}{8}$ inch hole; $1\frac{1}{2}$ inch outside diameter.

Slacen 24125 Unglazed, each **.40**

Large China Tubes, with Long Heads.



We carry the following sizes with heads 3 inches long, which can be used advantageously where water or sweepings are liable to come in contact with wires. In ordering always give both outside and inside diameter.

Price List of Each Size, in Cents.

LENGTH UNDER HEAD IN INCHES.		6	8	10	12	14	17
$\frac{1}{4}$ in. hole,	$\frac{3}{4}$ in. outside diameter	7	12 $\frac{1}{2}$	15 $\frac{1}{2}$	18 $\frac{1}{2}$	21 $\frac{1}{2}$	..
" "	$\frac{1}{2}$ " "	8	13 $\frac{1}{2}$	16 $\frac{1}{2}$	19 $\frac{1}{2}$	22 $\frac{1}{2}$	..
" "	$\frac{1}{2}$ " "	18	27 $\frac{1}{2}$	32 $\frac{1}{2}$	37 $\frac{1}{2}$	42 $\frac{1}{2}$	50
" "	$\frac{1}{2}$ " "	18	27 $\frac{1}{2}$	32 $\frac{1}{2}$	37 $\frac{1}{2}$	42 $\frac{1}{2}$	50
" "	$\frac{1}{2}$ " "	22 $\frac{1}{2}$	33	39	45	51	60
1 " "	$\frac{1}{2}$ " "	22 $\frac{1}{2}$	33	39	45	51	60

For any of the above Glazed, add 25 per cent.

Large China Tubes.



In ordering always give outside and inside diameter.

Price List of Each Size, in Cents.

LENGTH IN INCHES.		4	5	6	7	8	9	10	12	14	15	16	18	20	22	24
in. hole,	in. outside diam	2 1/2	3	4	5	6	7	8	14	17	20	23	24	24	24	24
1	1 1/2	8	12	16	20	25	30	35	40	45	50	55	60	65	70	72
1 1/2	2	9	12	16	20	25	30	35	40	45	50	55	60	65	70	72
2	2 1/2	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
2 1/2	3	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
3	3 1/2	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160

For any of the above Glazed, add 25 per cent.

Hard Rubber Tubing, with Heads.



ROUGH.



POLISHED.

Length.	Outside Diam.	Inside Diam.	Weight per C.	Rough Price per lb	Polished Price per 100
1 1/2 inch.	1 1/2 inch.	1 1/2 inch.	1 1/2 lbs.	2.25	29.80
1 1/2 "	1 1/2 "	1 1/2 "	1 1/2 "	2.25	28.40
2 1/2 "	1 1/2 "	1 1/2 "	1 1/2 "	2.25	35.20
2 1/2 "	1 1/2 "	1 1/2 "	2 "	2.25	38.00
3 "	1 1/2 "	1 1/2 "	1 1/2 "	2.25	36.80
4 "	1 1/2 "	1 1/2 "	2 1/2 "	2.25	46.00
6 "	1 1/2 "	1 1/2 "	3 1/2 "	2.25	60.00
3 "	1 1/2 "	1 1/2 "	2 1/2 "	2.25	60.00
4 "	1 1/2 "	1 1/2 "	3 1/2 "	2.25	60.00
6 "	1 1/2 "	1 1/2 "	5 1/2 "	2.25	68.60
8 "	1 1/2 "	1 1/2 "	6 1/2 "	2.25	77.00
4 "	1 1/2 "	1 1/2 "	4 1/2 "	2.25	65.60
8 "	1 1/2 "	1 1/2 "	7 1/2 "	2.25	93.80
12 "	1 1/2 "	1 1/2 "	10 1/2 "	2.25	121.80
8 "	1 1/2 "	1 1/2 "	10 1/2 "	2.25	110.40
12 "	1 1/2 "	1 1/2 "	15 1/2 "	2.25	138.60
2 1/2 "	1 1/2 "	1 1/2 "	22 1/2 "	2.25	38.00
3 "	1 1/2 "	1 1/2 "	26 1/2 "	2.25	46.40
4 "	1 1/2 "	1 1/2 "	5 1/2 "	2.25	65.80



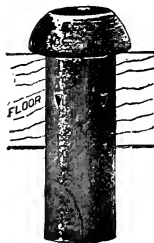
Nos. 3816 to 3825.



No. 3836.



No. 3472.



No. 8890.

Floor Insulators.

Glass Floor Insulators.

Code Word.	List No.				List Price. Per 1,000.
<i>Bernard</i>	3816	3	in. floor ins.,	$\frac{1}{2}$ in. bore, with thread	\$70.00
<i>Bertha</i>	3817	3	"	1 " "	70.00
<i>Bertram</i>	3818	3	"	$1\frac{1}{4}$ " "	80.00
<i>Bescech</i>	3819	$3\frac{1}{2}$	"	1 " "	75.00
<i>Bessem</i>	3820	4	"	$\frac{3}{4}$ " "	80.00
<i>Beset</i>	3821	4	"	1 " "	80.00

<i>Besiege</i>	3822	$4\frac{1}{2}$	in. floor ins.,	$\frac{1}{2}$ in. bore, with thread	90.00
<i>Besiegement</i>	3823	5	"	1 " "	100.00
<i>Besieging</i>	3824	6	"	1 " "	120.00
<i>Besmoke</i>	3825	6	"	$1\frac{1}{4}$ " "	140.00
<i>Besot</i>	3836	$3\frac{1}{2}$	"	$\frac{3}{4}$ " no thread	75.00
<i>Bespeak</i>	3837	6	"	1 " split thread	200.00

Floor Insulators, F. O. B., N. Y.

				Per Gross.	
<i>Acquity</i>	25599	3	inch over all,	$\frac{1}{8}$ inch bore.....	\$3.00 60.00
<i>Acquisitor</i>	25600	$3\frac{1}{2}$	" " "	$\frac{1}{8}$ " ".....	3.50 60.00
<i>Acquist</i>	25601	$4\frac{1}{2}$	" " " "	" " ".....	5.00 75.00
<i>Acquiment</i>	25602	6	" " " "	" " ".....	5.50 90.00

Porcelain Bushing.

THREE INCHES UNDER THE HEAD.

<i>Blinkard</i>	3472	For $\frac{3}{8}$ inch wire.....	75.00
<i>Blinkers</i>	3473	" $\frac{3}{4}$ " " ".....	90.00
<i>Bliss</i>	3474	" 1 " " ".....	100.00

China Floor Tubes.

				Each.	
<i>Enactment</i>	8899	4 inches long,	$\frac{3}{4}$ inch hole.....	\$.09	
<i>Enactor</i>	8900	4	" 1 " ".....	.09	
<i>Enamel</i>	8901	6	" $\frac{3}{4}$ " ".....	.15	
<i>Enameled</i>	8902	6	" 1 " ".....	.15	
<i>Enameling</i>	8903	4	" $1\frac{1}{4}$ " ".....	.14	
<i>Enamor</i>	8904	4	" $1\frac{1}{2}$ " ".....	.14	
<i>Enamored</i>	8905	6	" $1\frac{1}{4}$ " ".....	.18	
<i>Enamoring.</i>	8906	6	" $1\frac{1}{2}$ " ".....	.18	

Price List of Vitrified Clay Wiring Tubes.

Inches.	Diam. 1-16 In. Per 1000.	Diam. 3-8 In. Per 1000.	Diam. 1/2 In. Per 1000.	Diam. 5-8 In. Per 1000.	Diam. 3/4 In. Per 1000.	Diam. 1 In. Per 1000.	Diam. 1 1/8 In. Each.	Diam. 1 1/2 In. Each.	Diam. 1 3/4 In. Each.
1	7.50	7.00	.....	.....	.....	.....	.....	.....	.....
1 1/4	7.00	9.00	.....	.....	.....	.....	.....	.....	.....
2	8.00	10.00	.....	15.00	20.00	.....	.....	.....	.....
2 1/4	9.50	12.00	15.00	.....	.....	.....	.....	.....	.....
3	10.00	12.00	15.00	18.00	23.00	28.00	.....	.....	.....
4	12.00	14.00	18.00	22.00	25.00	35.00	.08	.10	.12
6	25.00	28.00	35.00	40.00	45.00	50.00	.10	.16	.20
8	32.00	40.00	50.00	54.00	60.00	70.00	.12	.20	.24
10	40.00	52.00	65.00	70.00	80.00	90.00	.16	.24	.28
12	70.00	80.00	90.00	100.00	105.00	130.00	.24	.36	.40
14	90.00	100.00	105.00	120.00	130.00	155.00	.28	.42	.50
16	105.00	120.00	120.00	135.00	155.00	180.00	.32	.48	.60
18	120.00	132.00	135.00	155.00	170.00	200.00	.36	.54	.65
20	135.00	145.00	150.00	175.00	185.00	225.00	.40	.60	.70
22	150.00	160.00	165.00	190.00	205.00	250.00	.44	.65	.80
24	165.00	175.00	180.00	205.00	215.00	275.00	.48	.70	.90

B. & T. White Porcelain Tubes.

Thin Walls. Straight. Absolutely Non-Absorbent.

List Price per 100.

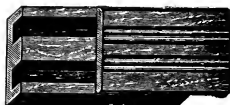
Length in inches..	3	4	5	6	8	10	12	14	16	18	20	24
1/2 in. inside diam.	.78	.94	1.53	1.95	3.00	4.00	6.00	7.00	8.00	9.00	10.00	.....
3/4 " " "	.94	1.10	1.80	2.34	3.50	4.50	6.50	8.00	9.00	10.00	11.00	14.00
1 " " "	1.28	1.40	2.11	2.72	4.00	5.00	7.00	9.00	10.00	12.00	13.00	15.00
1 1/4 " " "	1.40	1.72	2.55	3.11	4.50	6.00	8.00	10.00	12.00	14.00	15.00	17.00
1 1/2 " " "	1.81	1.95	2.80	3.50	5.00	7.00	9.00	10.00	13.00	15.00	16.00	20.00
1 3/4 " " "	2.18	2.72	3.45	3.90	7.00	8.00	11.00	12.00	15.00	17.00	19.00	22.00
2 " " "	.....	6.50	.....	8.00	10.00	13.00	19.00	22.00	26.00	.....	33.00	39.00
2 1/2 " " "	.....	8.00	.....	13.00	16.00	19.00	28.00	34.00	38.00	.....	47.00	56.00

Mouldings.

F. O. B. Chicago.

Price per 1,000 Feet, Moulding Only.

Capping one-half price of Moulding.



No. Wires.	Size of Grooves.	Unfinished Mahogany.	Finished Mahogany.	Unfinished Red Birch.
2	$\frac{1}{4}$ in.	\$80.00	\$100.00	\$20.00
3	$\frac{1}{4}$ in.	120.00	150.00	30.00

Price per 1,000 Feet, Moulding Only.

Capping one-half price of Moulding.

No. Wires.	Size of Grooves.	Unfinished Soft Wood.	Painted Soft Wood.	Unfinished Oak.	Finished Oak.	Finished Georgia Pine.
1	$\frac{1}{4}$ in.	\$6.00	\$8.00	\$12.00	\$17.00	\$12.00
2	$\frac{1}{4}$ in.	7.50	11.00	18.00	24.00	20.00
3	$\frac{1}{4}$ in.	12.00	16.00	28.00	36.00	28.00
2	$\frac{3}{8}$ in.	9.00	13.00	20.00	28.00	22.00
3	$\frac{3}{8}$ in.	14.00	19.00	30.00	40.00	32.00
1	$\frac{1}{2}$ in.	7.00	10.00	14.00	22.00	18.00
2	$\frac{1}{2}$ in.	13.00	18.00	26.00	36.00	28.00
3	$\frac{1}{2}$ in.	20.00	26.00	38.00	50.00	40.00
2	$\frac{3}{4}$ in.	14.00	20.00	28.00	40.00	30.00
3	$\frac{3}{4}$ in.	22.00	30.00	40.00	55.00	45.00
2	$\frac{7}{8}$ in.	18.00	24.00	35.00	47.00	37.00
3	$\frac{7}{8}$ in.	26.00	35.00	47.00	65.00	55.00
1	1 in.	10.00	14.00	20.00	30.00	22.00
2	1 in.	22.00	28.00	40.00	55.00	45.00
3	1 in.	30.00	40.00	55.00	75.00	65.00
2	1 in.	30.00	40.00	55.00	75.00	60.00
3	1 in.	45.00	60.00	82.00	110.00	90.00

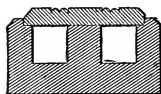
Special Mouldings made to order on short notice.

Mouldings.

F. O. B. New York.



No. 386.

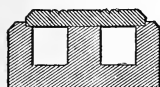


No. 387.

		Description.	Outside Diam. of Wire, Inches.	Width of Bottom, Inches.	List Price per 1,000 Ft.
<i>Contemplator</i>	386	A-1, complete, 2 wire	$\frac{1}{16}$	$1\frac{1}{16}$	11.00
<i>Contempt</i>	387	A-2, complete, 2 "	$\frac{3}{16}$	$1\frac{1}{16}$	21.00
<i>Contemptible</i>	388	A-2, bottom, 2 "	$\frac{3}{16}$	$1\frac{1}{16}$	13.50
<i>Contemptibly</i>	389	A-2, capping, 2 "	$\frac{3}{16}$	$1\frac{1}{16}$	7.50
<i>Content</i>	401	B-1, complete, 2 "	$\frac{1}{8}$	$1\frac{1}{8}$	25.00
<i>Content</i>	402	B-1, bottom, 2 "	$\frac{1}{8}$	$1\frac{1}{8}$	16.00
<i>Contention</i>	403	B-1, capping, 2 "	$\frac{1}{8}$	$1\frac{1}{8}$	9.00
<i>Contentious</i>	415	C-1, complete, 2 "	$\frac{1}{4}$	$2\frac{1}{4}$	28.00
<i>Contentless</i>	416	C-1, bottom, 2 "	$\frac{1}{4}$	$2\frac{1}{4}$	19.00
<i>Contentment</i>	417	C-1, capping, 2 "	$\frac{1}{4}$	$2\frac{1}{4}$	9.00
<i>Contents</i>	429	D-1, complete, 2 "	$\frac{1}{2}$	$2\frac{1}{2}$	40.00
<i>Conterminable</i>	430	D-1, bottom, 2 "	$\frac{1}{2}$	$2\frac{1}{2}$	29.00
<i>Conterminous</i>	431	D-1, capping, 2 "	$\frac{1}{2}$	$2\frac{1}{2}$	11.00
<i>Contest</i>	441	E-1, complete, 2 "	$\frac{3}{4}$	$3\frac{1}{4}$	60.00
<i>Contestable</i>	442	E-1, bottom, 2 "	$\frac{3}{4}$	$3\frac{1}{4}$	48.00

Mouldings—(Continued).

F. O. B. New York.



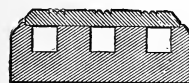
No. 390.



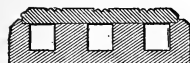
No. 399.



No. 400.



No. 393.

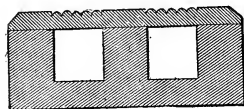


No. 396.

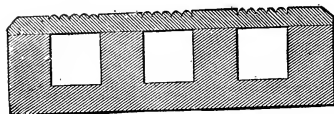
Code Word.	List No.	Description.	Outside Diam of Wire, Inches.	Width of Bottom, Inches.	List Price, per 1,000 Ft.
<i>Contestant</i>	443	E-1, capping, 2 wire,	$\frac{3}{16}$	$3\frac{1}{4}$	12.00
<i>Continent</i>	390	A-3, complete, 2 "	$\frac{3}{16}$	$1\frac{1}{4}$	18.00
<i>Continental</i>	391	A-3, bottom, 2 "	$\frac{3}{16}$	$1\frac{1}{4}$	10.50
<i>Contingency</i>	392	A-3, capping, 2 "	$\frac{3}{16}$	$1\frac{1}{4}$	7.50
<i>Contingent</i>	404	B-2, complete, 2 "	$\frac{1}{8}$	$1\frac{1}{2}$	21.00
<i>Continuable</i>	405	B-2, bottom, 2 "	$\frac{1}{8}$	$1\frac{1}{2}$	12.00
<i>Continual</i>	406	B-2, capping, 2 "	$\frac{1}{8}$	$1\frac{1}{2}$	9.00
<i>Contested</i>	418	C-2, complete, 2 "	$\frac{1}{8}$	$2\frac{1}{4}$	25.00
<i>Contesting</i>	419	C-2, bottom, 2 "	$\frac{1}{8}$	$2\frac{1}{4}$	16.00
<i>Context</i>	420	C-2, capping, 2 "	$\frac{1}{8}$	$2\frac{1}{4}$	9.00
<i>Contiguity</i>	432	D-2, complete, 2 "	$\frac{1}{8}$	$2\frac{1}{2}$	38.00
<i>Contiguous</i>	433	D-2, bottom, 2 "	$\frac{1}{8}$	$2\frac{1}{2}$	27.00
<i>Continually</i>	434	D-2, capping, 2 "	$\frac{1}{8}$	$2\frac{1}{2}$	11.00
<i>Continuance</i>	399	A-6, complete, 2 "	$\frac{1}{8}$	$1\frac{1}{4}$	\$15.00
<i>Continue</i>	413	B-5, " 2 "	$\frac{1}{8}$	$1\frac{1}{2}$	17.50
<i>Continued</i>	427	C-5, " 2 "	$\frac{1}{8}$	$2\frac{1}{4}$	22.50
<i>Continuedly</i>	400	A-7, complete, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	22.00
<i>Continuing</i>	414	B-6, " 8 "	$\frac{1}{8}$	$2\frac{1}{4}$	25.00
<i>Continuity</i>	428	C-6, " 8 "	$\frac{1}{8}$	$2\frac{1}{4}$	30.00
<i>Continuous</i>	393	A-4, complete, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	30.00
<i>Contort</i>	394	A-4, bottom, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	19.00
<i>Contorted</i>	395	A-4, capping, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	11.00
<i>Contortion</i>	407	B-3, complete, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	35.00
<i>Contour</i>	408	B-3, bottom, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	21.50
<i>Contra</i>	409	B-3, capping, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	13.50
<i>Contraband</i>	421	C-3, complete, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	42.00
<i>Contract</i>	422	C-3, bottom, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	27.00
<i>Contracted</i>	423	C-3, capping, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	15.00
<i>Contractile</i>	435	D-3, complete, 3 "	$\frac{1}{8}$	$3\frac{1}{4}$	60.00
<i>Contracting</i>	436	D-3, bottom, 3 "	$\frac{1}{8}$	$3\frac{1}{4}$	38.00
<i>Contraction</i>	437	D-3, capping, 3 "	$\frac{1}{8}$	$3\frac{1}{4}$	22.00
<i>Contractor</i>	444	E-2, complete, 3 "	$\frac{1}{8}$	$4\frac{1}{4}$	80.00
<i>Contradict</i>	445	E-2, bottom, 3 "	$\frac{1}{8}$	$4\frac{1}{4}$	59.00
<i>Contradicted</i>	446	E-2, capping, 3 "	$\frac{1}{8}$	$4\frac{1}{4}$	21.00
<i>Contralto</i>	396	A-5, complete, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	27.00
<i>Contraries</i>	397	A-5, bottom, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	16.00
<i>Contrariety</i>	398	A-5, capping, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	11.00
<i>Contrarily</i>	410	B-4, complete, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	30.00
<i>Contrary</i>	411	B-4, bottom, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	16.50
<i>Contrast</i>	412	B-4, capping, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	13.50
<i>Contrasted</i>	424	C-4, complete, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	38.00
<i>Contravene</i>	425	C-4, bottom, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	23.00
<i>Contravening</i>	426	C-4, capping, 3 "	$\frac{1}{8}$	$2\frac{1}{4}$	15.00
<i>Contravention</i>	438	D-4, complete, 3 "	$\frac{1}{8}$	$3\frac{1}{4}$	58.00
<i>Contretemps</i>	439	D-4, bottom, 3 "	$\frac{1}{8}$	$3\frac{1}{4}$	36.00
<i>Contributable</i>	440	D-4, capping, 3 "	$\frac{1}{8}$	$3\frac{1}{4}$	22.00

Mouldings—(Continued).

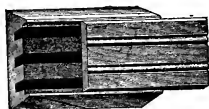
F. O. B. New York.



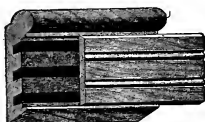
No. 447.



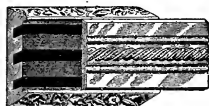
No. 450.



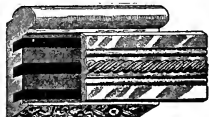
No. 591



No. 593.



No. 595.



No. 598.

Code Word.	List No.	Description.	Outside Diam of Wire, Inches.	Width of Bottom, Inches.	List Price, per 1,000 Ft.
<i>Contribute</i>	447	F-1, complete, 2 "	$\frac{1}{8}$	4	80.00
<i>Contributed</i>	448	F-1, bottom, 2 "	$\frac{1}{8}$	4	56.00
<i>Contributing</i>	449	F-1, capping, 2 "	$\frac{1}{8}$	4	24.00
<i>Contribution</i>	453	G-1, complete, 2 "	1	5	110.00
<i>Contributive</i>	454	G-1, bottom, 2 "	1	5	80.00
<i>Contributor</i>	455	G-1, capping, 2 "	1	5	30.00
<i>Contribute</i>	459	H-1, complete, 2 "	$1\frac{1}{8}$	$5\frac{1}{2}$	121.00
<i>Contributed</i>	460	H-1, bottom, 2 "	$1\frac{1}{8}$	$5\frac{1}{2}$	90.00
<i>Contributing</i>	461	H-1, capping, 2 "	$1\frac{1}{8}$	$5\frac{1}{2}$	31.00
<i>Contribution</i>	450	F-2, complete, 3 "	$\frac{1}{8}$	$5\frac{1}{2}$	100.00
<i>Contributive</i>	451	F-2, bottom, 3 "	$\frac{1}{8}$	$5\frac{1}{2}$	68.00
<i>Contributor</i>	452	F-2, capping, 3 "	$\frac{1}{8}$	$5\frac{1}{2}$	32.00
<i>Contribution</i>	456	G-2, complete, 3 "	1	7	140.00
<i>Contributing</i>	457	G-2, bottom, 3 "	1	7	100.00
<i>Controllable</i>	458	G-2, capping, 3 "	1	7	40.00

Ornamental Moulding.

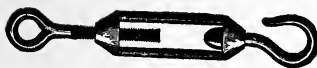
MADE IN TWO AND THREE WIRE, WITH $\frac{1}{4}$ INCH GROOVE.

Code Word.	List No.	List Price.
<i>Hardhood</i>	590	Polished Oak, 2 wire, per foot..... \$0.25
<i>Hardly</i>	591	" 3 " "30
<i>Hardening</i>	592	Polished Oak, 2 wire, per foot..... .25
<i>Hardest</i>	593	" 3 " "30
<i>Harborless</i>	594	White and Gold, 2 wire, per foot..... .30
<i>Hardened</i>	595	" " 3 " "40
<i>Harbored</i>	596	White and Gold, 2 wire, per foot..... .30
<i>Harboring</i>	598	" " 3 " "40



McIntire Patent Wire Connectors.

Code Word.	List No.		List Price.
<i>Cheerlessly</i>	18757	Twist connectors for No. 4 wire, B. & S. gauge, per 100.....	\$9.00
<i>Cheesey</i>	18758	Twist connector, for No. 6 wire, B. & S. gauge, per 100.....	8.00
<i>Chemically</i>	18759	Twist connector for No. 8 wire, B. & S. gauge, per 100.....	9.50
<i>Chemist</i>	18760	Twist connector for No. 10 wire, B. & S. gauge, per 100.....	7.00
<i>Chemnitz</i>	15416	Twist connector for No. 12 wire, B. & S. gauge, per 100.....	7.00
<i>Chemnitz</i>	15417	Twist connector for No. 14 wire, B. & S. gauge, per 100.....	7.00
<i>Chemnitz</i>	15418	Twist connector, for No. 16 wire, B. & S. gauge, per 100.....	7.00
<i>Cheria</i>	18761	Solder connector for No. 0000 wire, B. & S. gauge, per 100.....	25.00
<i>Cherishing</i>	18762	Solder connector for No. 000 wire, B. & S. gauge, per 100.....	25.00
<i>Cheroot</i>	18763	Solder connector for No. 00 wire, B. & S. gauge, per 100.....	25.00
<i>Cherryly</i>	18764	Solder connector for No. 0 wire, B. & S. gauge, per 100.....	20.00



Turn Buckles.

Code Word.	List No.	Diameter of Thread, inches.	Length of Screw, inches.	Galvanized. List Price. Each.	Plain. List Price. Each.
<i>Slipshod</i>	24129	$\frac{7}{8}$	...	.95	.80
<i>Slipshoe</i>	24130	$\frac{1}{2}$	3 $\frac{1}{2}$	1.00	.85
<i>Slipstop</i>	24131	$\frac{7}{8}$	4	1.10	.90
<i>Slipstrang</i>	24132	$\frac{1}{2}$	5	1.30	1.10
<i>Slipthrift</i>	24133	$\frac{7}{8}$	6	1.50	1.25
<i>Slit</i>	24134	$\frac{1}{2}$	7	1.80	1.55
<i>Slither</i>	24135	$\frac{1}{2}$	12	2.75	2.40
<i>Slownliness</i>	24137	$\frac{1}{2}$	8	2.40	2.00
<i>Slownly</i>	24138	$\frac{1}{2}$	12	3.75	3.10
<i>Slone</i>	24139	$\frac{3}{4}$	9	3.50	2.75
<i>Slonback</i>	24140	$\frac{3}{4}$	12	5.40	4.25
<i>Slowly</i>	24141	$\frac{1}{2}$	10	4.25	3.50
<i>Slowness</i>	24142	1	11	5.50	4.25
<i>Slub</i>	24143	1 $\frac{1}{4}$	14	7.00	5.25
<i>Slubber</i>	24144	1 $\frac{1}{4}$	15	8.25	6.25



No. 24125.

Cutter Insulated Turnbuckle.

Is made with heavy porcelain insulators secured to malleable iron forks. These give a double insulation, making the device very effective. The turnbuckle gives nine inches adjustment.

Code Word. List No. List Price.
Slipperiness 24136 Complete75



No. 24124.

Cutter Insulated Suspension Bolt.

Reduces the risk of grounds on suspension lamps by insulating the suspension wire or cable from the pole. Can also be used with guard wires or for railway suspensions. The fork is of malleable iron and well braced.

Slipperily 24124 With 12-inch bolt \$0.25

**Cutter "Banner Core" Hoisting Rope.**

A new brand of hoisting rope specially made for use with arc lamps or suspension street lights. It is made of selected cotton stock, closely braided over a red, white and blue core; the cord is then treated so as to withstand the weather, making the strongest and most durable cord for outdoor use. The genuine has the distinctive "banner core."



Slippery 24126 1/4-inch, per 100 feet90
Slipperiness 24127 1/2-inch, " 1.44
Slippy 24128 3/4-inch, " 1.80

Pure Manilla Rope.

		Diam.	Weight of 1,000 Feet.	Number of Feet in One Pound.	Strength of New Manilla Rope.	Per Pound.
Murdock	15420	1/4	23	43	450	.30
Murroes	15421	1/2	42	24	950	.30
Muscotine	15422	3/4	74	13 1/2	1700	.28
Muscoda	15423	1 1/4	101	10	2300	.28
Muskegan	15425	1 1/2	132	7 1/2	3000	.25
Mystic	15426	2	167	6	3900	.24

**Incandescent Street Brackets.**

Cherub 2795 30-inch Straight Pipe Bracket, each 1.00
Cherubim 2796 Goose Neck Bracket, each 1.10

The above furnished in 3/4-inch and 1-inch pipe as desired.

Oak Pins.



No. 15430.

Code Word.	List No.	In Crates of 500.	List Price.
<i>Nampa</i>	15430	Western Union Standard, 1½ inch, second growth, split timber, hand painted, two coats, with first-class mineral paint, per 1000.	\$ 25.00
<i>Nantucket</i>	15431	Western Union Standard, 1½ inch split timber, hand painted, two coats, with first-class mineral paint, per 1000.	20.00
<i>Napa</i>	15432	Western Union Standard, size 1½ inch, sawed and split timber, dipped, painted one coat, per 1000.	15.00
<i>Naples</i>	15433	1¼ inch, second growth split timber, hand painted, two coats, first class mineral paint, per 1000.	20.00
<i>Napoli</i>	15434	1¼ inch, split timber, hand painted, first class mineral paint, per 1000.	15.00
<i>Nashua</i>	15435	1¼ inch, sawed and split timber, dipped, painted one coat, per 1000.	12.00

Locust Pins.

Not Painted.



No. 15440.

		In Crates of 500.	
<i>Nashville</i>	15440	1½ inch, 7¾ inch long, per 1000.	25.00
<i>Natchez</i>	15441	1½ " 8 " " " " "	25.00
<i>Natick</i>	15442	1½ " 8 " " " " "	27.00
<i>Navajo</i>	15443	1½ " 8 " " " transposition, per 1000	30.00
<i>Naylor</i>	15444	1½ " 9 " " " " "	30.00

Corner Pins.



No. 15445.

<i>Nenah</i>	15446	Oak, 1½ " " " " " "	60.00
<i>Negona</i>	15447	Locust " " " " " "	65.00

Brown Duplex Pins.



No. 2671.

<i>Circumvent</i>	2671	Oak, 1½ inch, per 1000.	30.00
<i>Citadel</i>	2672	Locust 1½ " " " " " "	40.00

Solid Iron Pin.

<i>Bald</i>	3394	1½ inch, each.	.10
-------------	------	----------------	-----

Brackets.

In Crates of 500.



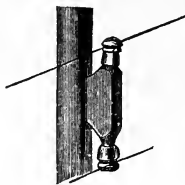
No. 15454.



No. 15455.

<i>Nelson</i>	15455	Oak, Western Union Standard, No. 1 timber, hand painted, two coats first-class mineral paint, per 1000.	25.00
<i>Neola</i>	15456	Oak, Western Union Standard, No. 2 timber, hand painted; two coats first-class mineral paint, per 1000.	21.00
<i>Nesho</i>	15457	Oak, Pony telephone, hand painted, two coats, first-class mineral paint, per 1000.	18.00
<i>Nevado</i>	15458	Oak, Pony, painted, dipped, one coat " "	16.50
<i>Newark</i>	15459	Standard, Locust, not painted " "	35.00

Special prices on pins and brackets shipped direct from factory in large quantities.



No. 3000.

Brown Duplex Bracket.

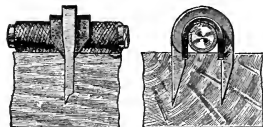
Code Word.	List No.	List Price.
<i>Citrate</i>	3000 Per 1,000	\$35.00



No. 3610.

Locke Indestructible Insulator Pin.

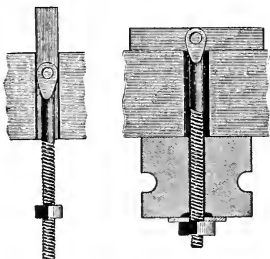
<i>Cum</i>	3610 Complete, with nut, etc., each20
------------	---	-----



No. 1742.

The "Insulating Saddle Staple."

<i>Centralize</i>	1742	For wire $\frac{5}{16}$ inch in diameter, per 1,000..	.60
<i>Centrifugal</i>	1743	" $\frac{1}{8}$ " " " "	.70
<i>Centripetal</i>	1744	" $\frac{1}{8}$ " " " "	.80
<i>Centriple</i>	1745	" $\frac{5}{16}$ " " " "	1.70
<i>Centurion</i>	1746	" $\frac{5}{16}$ " " " "	5.40
<i>Century</i>	1747	" $\frac{5}{16}$ " " " "	5.00



No. 1648.

Toggles.

For suspending fixtures, brackets, wood blocks, etc., to side walls or ceiling.

<i>David</i>	1648 Each10
--------------	-----------------	-----

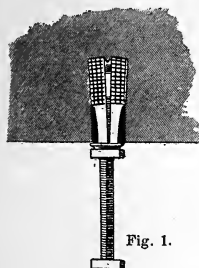


Fig. 1.

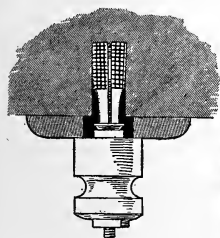
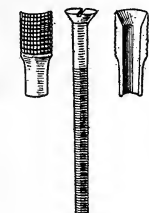


Fig. 2.



Detail of Parts.

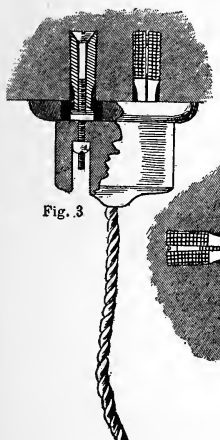


Fig. 3.

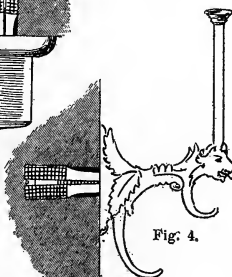


Fig. 4.

Tile Bolt and Lock.

This tile bolt and lock is devised for use in fire-proof buildings where the columns and girders are covered with tiling. It is a safe and simple method for fastening insulators, rosettes, or other electrical appliances to ceilings, columns, or walls. It cannot be pulled out when properly set and yet can be easily removed when desired.

This device consists of two pieces of metal with partially corrugated outside surfaces which when placed together form a shape similar to a cone. The opening in the upper end when the pieces of metal are put together is countersunk, allowing the bolt head to which the insulators or other devices are to be fastened to fit snugly between the two pieces of metal. These two pieces of metal together with the bolt are inserted in a hole in the tiling. A small concave washer slips over the bolt and a nut is then screwed up close to the ends of the small pieces of metal, as it is gradually tightened it draws the bolt head down into the space between the two pieces of metal until it makes them bind tightly to the sides of the hole, the end deepest in the hole binding tightest; this leaves the shank of the bolt free for attaching any device that may be desired.

The top illustration, Figure 1, shows the screw or bolt attached to a ceiling while the illustrations under it, Figure 2 and Figure 3, show respectively an insulator and a ceiling button or rosette attached to the bolt. Illustration Figure 4 shows how the tile bolt and lock may be used for attaching ornamental brackets to the side of a wall.

These tile bolts and locks are made in two sizes: No. 25073 which has a bolt $3\frac{1}{2} \times \frac{1}{4}$ inches, includes the two conical pieces of metal which are called the lock, one small iron washer, two small iron nuts, and the bolt; No. 25074, which has a bolt $2 \times \frac{1}{4}$ inches, includes the lock, the bolt, one small iron washer, one small iron nut, and one brass nut which is slotted so that a screw driver as well as a wrench may be used on it. No. 25074 is used principally for fastening rosettes to the ceiling where two bolts are to be used on one device.

It will be particularly noted that partitions in the tiling or tile or marble slabs resting against flat surfaces do not interfere with the use of the tile bolt and lock as in the case of toggle bolts; with the tile bolt and lock there is no need of an open space as is required in the use of toggle bolts.

Code Word.	List No	List Price.
<i>Somnative</i>	25073 $3\frac{1}{2} \times \frac{1}{4}$ inches, per 1000.....	\$40.00
<i>Somnicalous</i>	25074 $2 \times \frac{1}{4}$ " " 1000.....	45.00

Standard Cross Arms.



No. 23564.

Shipped direct from Bay City, Mich.
Painted two coats red. Finished size $3\frac{1}{2} \times 4\frac{1}{4}$ inches.
Bored for $1\frac{1}{2}$ inch pins and two $\frac{1}{2}$ inch bolts unless
otherwise specified.

Code Word.	List No.	Length.	Number of Pins.	End.	Spacings. Center.	Sides.	List Price. Each.
<i>Olley</i>	23563	3 feet,	2,	4 in..	23 in.,		\$.12
<i>Olsego</i>	23564	4 "	4 "	"	16 "	12 "	.15
<i>Oltawa</i>	23565	5 "	4 "	"	18 "	17 "	.21
<i>Otto</i>	23566	6 "	4 "	"	22 "	21 "	.24
<i>Ottumsea</i>	23567	6 "	6 "	"	16 "	12 "	.24
<i>Overton</i>	23568	8 "	6 "	"	18 "	17½ "	.33
<i>Ovid</i>	23569	8 "	8 "	"	16 "	12 "	.33
<i>Owego</i>	23572	10 "	8 "	"	17½ "	15¾ "	.53
<i>Oxford</i>	23573	10 "	10 "	"	16 "	12 "	.55

Telephone Cross Arms.

Shipped direct from Bay City, Mich.
Painted two coats. Finished size $2\frac{3}{4} \times 3\frac{3}{4}$ in.
Bored for $\frac{1}{4}$ in. pins and two $\frac{1}{2}$ in. bolts.

		Length.	Number of Pins.	End.	Spacings. Center.	Sides.	
<i>Newburn</i>	15460	24 in.	2	3 in.	18 in.		.08
<i>Newburg</i>	15461	30 "	2	"	24 "		.10
<i>Norton</i>	15462	36 "	2	"	30 "		.12
<i>Niagara</i>	15463	42 "	4	"	16 "	10 in.	.14
<i>Niatic</i>	15464	62 "	6	"	16 "	10 "	.21
<i>Nichols</i>	15465	82 "	8	"	16 "	10 "	.27
<i>Nicolletti</i>	15466	102 "	10	"	16 "	10 "	.35
<i>Niles</i>	15467	120 "	12	"	16 "	10 "	.42

Odd lengths same price as next longer arm having same number of pins. Odd spacing extra prices.

Above arms of best Michigan white pine.
Special prices quoted on yellow pine arms and extra heavy arms.

Stiff Steel Cross Arm Braces.



No. 15470.

$1\frac{1}{2}$ inches wide by $\frac{3}{4}$ inches thick, punched for $\frac{5}{8}$ inch lag screw in one end and $\frac{3}{8}$ inch carriage bolt in the other.

Plain.

Approx. weight
per 1000 pair.

<i>Nina</i>	15470	20-inch,	2700 pounds,	per 1000 pair.	90.00
<i>Nipton</i>	15471	24 "	3200 "	"	108.00
<i>Nolin</i>	15472	26 "	3500 "	"	125.00
<i>Noma</i>	15473	28 "	3900 "	"	140.00

Galvanized.

<i>Nora</i>	15475	20-inch,	2700 pounds,	per 1000 pair.	135.00
<i>Norcross</i>	15476	24 "	3200 "	"	160.00
<i>Norfolk</i>	15477	26 "	3500 "	"	180.00
<i>Norman</i>	15478	28 "	3900 "	"	200.00

Special dimension braces to order.

Lag Bolts.

Price per hundred.



Length.	$\frac{1}{4}$ in.	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	$\frac{1}{2}$ in.
2	\$2.88	\$4.05	\$4.95	
2½	3.06	4.35	5.40	\$ 7.92
3	3.24	4.65	5.85	8.58
3½	3.42	4.95	6.30	9.24
4	3.60	5.25	6.75	9.90
4½	3.78	5.55	7.20	10.56
5	3.96	5.85	7.65	11.22
5½	4.14	6.15	8.10	11.88
6	4.32	6.45	8.55	12.54
7	4.68	7.05	9.45	13.86
8	5.04	7.65	10.35	15.18

Carriage Bolts.

Price per hundred



Length.	$\frac{1}{4}$ in.	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	$\frac{1}{2}$ in.
2	\$1.08	\$1.50	\$3.00	\$ 5.00.
2½	1.16	1.64	3.00	5.00
3	1.24	1.78	3.00	5.00
3¼	1.28	1.85	3.10	5.15
3½	1.32	1.92	3.20	5.30
3¾	1.36	1.99	3.30	5.45
4	1.40	2.06	3.40	5.60
4¼	1.44	2.13	3.50	5.75
4½	1.48	2.20	3.60	5.90
4¾	1.52	2.27	3.70	6.05
5	1.56	2.34	3.80	6.20
5½	1.64	2.48	4.00	6.50
6	1.72	2.62	4.20	6.80
6½	1.80	2.76	4.40	7.10
7	1.88	2.90	4.60	7.40
7½	1.96	3.04	4.80	7.70
8	2.04	3.18	5.00	8.00

Machine Bolts.

Price per hundred

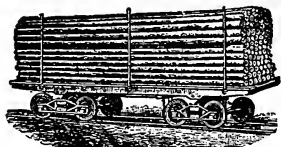


Length.	$\frac{1}{4}$ in.	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	$\frac{1}{2}$ in.
2½	\$1.86	\$2.64	\$4.00	\$5.80
3	1.94	2.76	4.20	6.10
3½	2.02	2.88	4.40	6.40
4	2.10	3.00	4.60	6.70
4½	2.18	3.12	4.80	7.00
5	2.26	3.24	5.00	7.30
5½	2.34	3.36	5.20	7.60
6	2.42	3.48	5.40	7.90
6½	2.50	3.60	5.60	8.20
7	2.58	3.72	5.80	8.50
7½	2.66	3.84	6.00	8.80
8	2.74	3.96	6.20	9.10
9	2.90	4.20	6.60	9.70
10	3.06	4.44	7.00	10.30

Washers.

At market prices.





Wood Poles.

SPECIAL PRICES QUOTED ON APPLICATION.

Round Cedar.

Length.	Top.	Weight in Lbs.	No. to Carload
25 feet.	5 inches.	200	120
25 "	6 "	275	110
30 "	6 "	325	100
30 "	7 "	450 ¹	80
35 "	6 "	500	120
35 "	7 "	600	110
40 "	6 "	700	100
40 "	7 "	800	90
45 "	6 "	950	82
45 "	7 "	1100	60
50 "	6 "	1250	40
50 "	7 "	1450	25
55 "	6 "	1500	30
55 "	7 "	1800	25

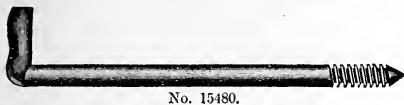
Norway Pine.

Length.	Top.	Weight in Lbs.	No. to Carload
40 feet.	7 inches	1100	90
45 "	7 "	1200	80
50 "	7 "	1350	72
55 "	7 "	1500	65
60 "	7 "	1700	55
65 "	7 "	2000	45
70 "	7 "	2400	50
75 "	7 "	2800	45
80 "	7 "	3400	35
85 "	7 "	3800	30

Norway Pine Octagonals.

Length.	6 inches.	9 inch butt.	No. to Carload
28 feet.	6 inches.	9 inch butt.	75
28 "	7 "	10 "	80
28 "	8 "	11 "	50
30 "	6 "	9 "	75
30 "	7 "	10 "	60
30 "	8 "	11 "	50
32 "	6 "	9 "	65
32 "	7 "	10 "	50
32 "	8 "	11 "	40
34 "	6 "	9 "	65
34 "	7 "	10 "	50
34 "	8 "	11 "	40

Six feet of the butt treated with preservative, balance of pole painted drab, tops tipped.



No. 15480.



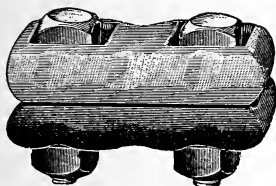
No. 3528.



No. 24433.



No. 24434.



Small size.



No. 15484.

Pole Steps.

Code Word	List No.		List Price. Per 100.
Norton	15480	$\frac{3}{8}$ x 9 Black	\$ 6.00
Norwalk	15481	$\frac{3}{8}$ x 9 Galvanized	8.00
Norway	15482	$\frac{3}{8}$ x 9 Black	7.00
Noriech	15483	$\frac{3}{8}$ x 9 Galvanized	9.00

Booby	3528	8 x $\frac{1}{2}$ F.D black pole steps	6.50
Book	3529	9 x $\frac{1}{2}$ " " "	6.75
Bookful	3530	10 x $\frac{1}{2}$ " " "	7.00
Bookish	3531	8 x $\frac{3}{4}$ " " "	6.70
Bookish	3532	9 x $\frac{3}{4}$ " " "	7.00
Boom	3533	10 x $\frac{3}{4}$ " " "	7.25
Boomed	3534	8 x $\frac{1}{2}$ " galv. " "	8.00
Boomerang	3535	9 x $\frac{1}{2}$ " " "	8.25
Boot	3536	10 x $\frac{1}{2}$ " " "	8.50
Booted	3537	8 x $\frac{3}{4}$ " " "	9.00
Booth	3538	9 x $\frac{3}{4}$ " " "	9.25
Bootless	3539	10 x $\frac{3}{4}$ " " "	9.50

Cutter Detachable Polesteps.

Are easier to carry than a Trimmer's Ladder. A pair of Sockets are fastened to the pole and the trimmer carries a pair of Polesteps to fit them (weight per pair less than one pound). He slips the steps into their socket, goes up the pole to trim the lamp, then puts the steps into his pocket and goes on to the next lamp.

All of malleable iron, japanned.

Solarium	24433	Sockets, per pair	\$0.20
Solarization	24434	Polesteps, per pair	.30

Galvanized Guy Clamps.

For fastening guy wires and cables, large size is 5 $\frac{1}{2}$ inches long; small size 3 inches long.

Acquittal	25603	Large size with three bolts	.40
Acquittance	25604	Small size with two bolts	.20

Crosby Clips.

	Diam. Rope.	Each.
Oakville	15484 $\frac{3}{4}$ -inch	.25
Oakland	15485 $\frac{1}{2}$ "	.30
Oaklawn	15486 $\frac{3}{8}$ "	.35
Oakdale	15487 $\frac{3}{4}$ "	.40
Oakfield	15488 $\frac{3}{8}$ "	.45
Oakford	15489 1 "	.50
Oakwood	15490 1 $\frac{1}{2}$ "	.50
Obeida	15491 1 $\frac{1}{4}$ "	.50
Oconto	15492 1 $\frac{3}{4}$ "	.55
Ocean	15493 1 $\frac{1}{2}$ "	.60



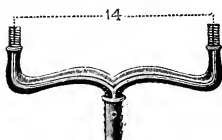
No. 8640.



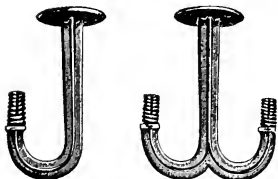
No. 8641.



No. 24446.



No. 24447.



No. 24448.

No. 24449.



No. 24450.



No. 24451.



No. 24452.

"High Insulation" Brackets.**Break Arms.**

Code Word.	List No.	List Price Each.
<i>Cervate</i>	8640 Removable Pin, each	\$0.22

<i>Cervatus</i>	8641 Permanent Pin, each20
-----------------	--------------------------------	-----

<i>Soldiery</i>	24446 $\frac{1}{2}$ Malleable Iron, Removable Pin, each25
-----------------	---	-----

<i>Sole</i>	24447 Malleable Iron, Solid Pin, each25
-------------	---	-----

Malleable Iron Ceiling Brackets.

<i>Solecism</i>	24448 Single, each .....	.17
<i>Solecist</i>	24449 Double, each .....	.20

Malleable Iron Drive Brackets.

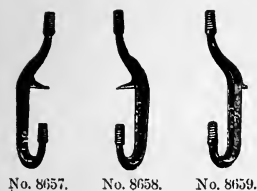
<i>Solecistic</i>	24450 Upright10
-------------------	---------------------	-----

<i>Solecistically</i>	24451 Thimble12
-----------------------	---------------------	-----

<i>Solecize</i>	24452 Right Forward10
-----------------	---------------------------	-----

High Insulation Brackets.

Loop or Spreader Brackets.



No. 8657. No. 8658. No. 8659.

Code Word.	List No.	List Price, Each
<i>Cereul</i>	8657 Left, each	\$0.24
<i>Cerebrul</i>	8658 Right, each .....	.24
<i>Cerebrum</i>	8659 Forward, each .....	.24



No. 8662.



No. 8660.

<i>Cerement</i>	8660 Wall Bracket, each .....	.13
<i>Cereous</i>	8662 Roof Bracket, straight, each .....	.17



No. 24453.



No. 8661.

<i>Ceremony</i>	8661 Roof Bracket, offset, each .....	.17
<i>Solely</i>	24453 Malleable Wall Bracket, each .....	.08



No. 24454.

Malleable Iron Roof Bracket.

<i>Solemn</i>	24454 Each08
---------------	------------------	-----



No. 24455.

Malleable Iron Pins.

<i>Solemnity</i>	24455 5 inches above Cross Arm10
------------------	--------------------------------------	-----



No. 24456.

<i>Solemnize</i>	24456 8½ inches above Cross Arm12
------------------	---------------------------------------	-----

"High Insulation" Brackets—(Continued)

No. 8663



No. 8642.



No. 8643.



No. 8646.



No. 8647.



No. 8648.



No. 9468.

Code Word.	List No.	List Price.
<i>Ceres</i>	8663 Lateral Bracket, right, each.....	\$0.17
<i>Corky</i>	8642 Cornice Brackets, each.....	.17
<i>Cerin</i>	8643 Lateral Brackets, left, each.....	.17
<i>Certainly</i>	8646 Combination Bracket, each.....	17
<i>Certainness</i>	8647 Reflector Bracket, each.....	.20
<i>Certificate</i>	8648 Converter Bracket, each.....	20
<i>Certified</i>	9468 Side Bracket, each.....	.08

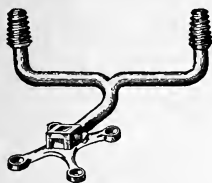


No. 2891.

Fletcher's Double Pin Bell Break Arm

FOR USE WITH CONVERTERS AND SWITCHES.

<i>Certify</i>	2891 Each.....	.50
----------------	----------------	-----



No. 8992.

Japanned. House Brackets.

WITH VENTILATED THREADS.

Code Word.	List No.	List Price.
<i>Chicken</i>	8992 Each	\$0.50



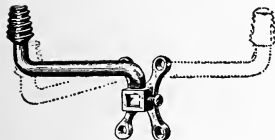
No. 8993.

<i>Chickory</i>	8993 Each20
-----------------	-----------------	-----



No. 8994.

<i>Chide</i>	8994 Each20
--------------	-----------------	-----



No. 8995.

<i>Chider</i>	8995 Each25
---------------	-----------------	-----



No. 8996.

<i>Chiding</i>	8996 Each25
----------------	-----------------	-----



No. 8997.

<i>Chief</i>	8997 Each20
--------------	-----------------	-----

Japanned. Wall Plates.

WITH PORCELAIN KNOBS

Code Word.	List No.	List Price.
<i>Chew.</i>	9065 Each.....	\$0.10

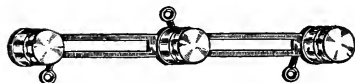


No. 9065.



No. 9066.

<i>Chewing</i>	9066 Each.....	.20
----------------	----------------	-----



No. 9067.

<i>Chicanery</i>	9067 Each.....	.30
------------------	----------------	-----



No. 8636.

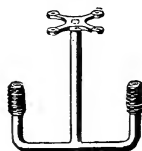
House Brackets.

<i>Certitude</i>	8636 Adjustable House Bracket, each.....	.45
------------------	--	-----



No. 8637.

<i>Cession</i>	8637 Adjustable House Bracket, each.....	.45
----------------	--	-----



No. 8638.

<i>Cessible</i>	8638 Ventilated Thread Bracket, each.....	.40
-----------------	---	-----



No. 8639.

<i>Cession</i>	8639 Ventilated Thread Bracket, each.....	.75
----------------	---	-----



No. 9068.

House Brackets—(Continued).

Code Word.	List No.	List Price.
<i>Cessment</i>	9068 Ventilator Thread Bracket, each.....	\$0.75



No. 9069.

<i>Cessor</i>	9069 Ventilator Thread Bracket, each.....	.40
---------------	---	-----



No. 9070.

<i>Cesspool</i>	9070 Ventilator Thread Bracket, each.....	.50
-----------------	---	-----



No. 9071.

<i>Cessus</i>	9071 Ventilator Thread Bracket, each.....	.75
---------------	---	-----



No. 9072.

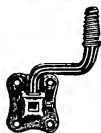
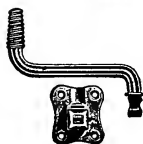
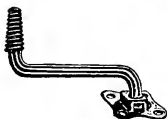
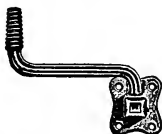
<i>Chiefly</i>	9072 Ventilator Thread Bracket, each.....	.75
----------------	---	-----



No. 8966.



No. 8967.



No. 8968.



No. 8969.

House Brackets—(Continued).

Code Word.

Clabber

List No.

8966 Ventilated Thread Bracket, each' \$0.75

List Price.

Civilly

8967 Ventilated Thread Bracket, each.50

Universal House Bracket.

CAN BE PLACED IN ANY POSITION.

Chieftain

8968 Extra Heavy, each..... .35

House Brackets.

WITH VENTILATED THREADS.

Civilty

8969 Each..... .25



No. 8970.

House Brackets—(Continued).

Code Word.	List No.	List Price.
<i>Civilized</i>	8970 Each	\$0.15



No. 8971.

<i>Civilizer</i>	8971 Each20
------------------	------------------------	------------



No. 8972.

<i>Civilizing</i>	8972 Each.....	.25
-------------------	-----------------------	------------

Wire, Cord and Cable.

Habirshaw White Core.

Solid Conductors, Braided.

Stranded Conductors, Braided.

Code Word.	List No.	Gauge	Approx. Outside Diam. in B. & S. 32ds of in.	Price per 1000 Ft.	Code Word.	List No.	Gauge	Approx. Outside Diam. in B. & S. 32ds of in.	Price per 1000 Ft.
<i>Solicitation</i>	25001	14	6	\$15.00	<i>Solidity</i>	25013	8	10	\$50.00
<i>Solicitor</i>	25002	12	7	23.00	<i>Solidly</i>	25014	6	11	62.00
<i>Sollicitous</i>	25003	10	8	30.00	<i>Solidness</i>	25015	5	13	78.00
<i>Sollicitously</i>	25004	8	9	36.00	<i>Solidfian</i>	25016	4	13½	96.00
<i>Sollicitress</i>	25005	6	10	50.00	<i>Soliloquize</i>	25017	3	14½	136.00
<i>Solicitude</i>	25006	5	12	69.60	<i>Soliloquy</i>	25018	2	16	156.00
<i>Solidarity</i>	25007	4	13	76.00	<i>Soliped</i>	25019	1	17	200.00
<i>Solidate</i>	25008	3	13½	90.00	<i>Solitary</i>	25020	0	18	210.00
<i>Solify</i>	25009	2	14½	118.00	<i>Solitarily</i>	25021	00	19	228.00
<i>Solidism</i>	25010	1	15½	135.00	<i>Solitariness</i>	25022	000	21	260.00
<i>Solidist</i>	25011	0	16½	180.00	<i>Solitary</i>	25023	0000	24	340.00

Habirshaw Standard Red Core.

No. 3000.

Solid Conductor, 500 Volts, Taped Outside.

Code Word.	List No.	Gauge, B. & S.	Approximate Outside Diam. in 32ds of an Inch.	List Price, per Foot.
<i>Abacus</i>	3000½	18	4	\$0.02½
<i>Abaft</i>	3001	16	5½	.02½
<i>Abandoner</i>	3002	14	6	.03½
<i>Abandoning</i>	3003	12	7	.04½
<i>Abase</i>	3004	10	8	.06½
<i>Abasement</i>	3005	8	9	.08½
<i>Abash</i>	3006	6	10	.11½
<i>Abashed</i>	3007	5	12	.13½
<i>Abashing</i>	3008	4	13	.15½
<i>Abate</i>	3009	3	13½	.18
<i>Abated</i>	3010	2	14½	.23½
<i>Abatement</i>	3011	1	15½	.31½
<i>Abater</i>	3012	0	16½	.41

Solid Conductor, 500 Volts, Braided Outside.

No. 3013.

		Gauge, B. & S.	Approximate Outside Diam. in 32ds of an Inch.	
<i>Abattoir</i>	3013	18	4	.02½
<i>Abbacy</i>	3014	16	5½	.03
<i>Abdess</i>	3015	14	6	.03½
<i>Abbey</i>	3016	12	7	.05
<i>Abject</i>	3017	10	8	.06½
<i>Abjection</i>	3018	8	9	.08½
<i>Abjectly</i>	3019	6	10	.12
<i>Abjectness</i>	3020	5	12	.14
<i>Abjure</i>	3021	4	13	.16
<i>Ablation</i>	3022	3	13½	.18½
<i>Ablative</i>	3023	2	14½	.24½
<i>Abaze</i>	3024	1	15½	.32½
<i>Able</i>	3025	0	16½	.43

Habirshaw Standard Red Core—(Continued).



Stranded Conductor, 500 Volts, Braided Outside.

No 3026

Code Word.	List No.	Gauge. B. & S.	Circular Mils.	Approximate Outside Diameter in 32nds of an inch.	List Price per Foot.
<i>Ablution</i>	3026	12	6,529	7	\$0.05½
<i>Ably</i>	3027	10	10,381	8	.07
<i>Abnegate</i>	3028	8	16,509	10	.10½
<i>Abnormal</i>	3029	6	26,250	11	.17½
<i>Aboard</i>	3030	5	33,102	13	.19½
<i>Abode</i>	3031	4	41,742	13½	.24½
<i>Abolish</i>	3032	3	52,634	14½	.29½
<i>Abolisher</i>	3033	2	66,373	16	.32½
<i>Abolition</i>	3034	1	83,694	17	.36
<i>Abominably</i>	3035	0	105,592	18	.47½
<i>Abominate</i>	3036	00	133,079	19	.60
<i>Abominated</i>	3037	000	167,805	21	.68
<i>Abominating</i>	3038	0000	211,600	24	.88



Grimshaw White Core Wire.

Solid Conductor, Double Coated, Taped, Black or White Braid.

	Trade No.	B. & S. Gauge.	Safe Carrying Capacity, Bare Wire, in Amp. 120° F.	Circular Mils. (sq) 1 Mil. = .001 inch.	Outside Diam. of Insulation, = .001 inch.	Price per 100 Feet.	
Archives	3104	220	18	6	.125	\$1.90	
Archness	3105	221	18	6	.156	2.00	
Archway	3106	223	16	10	.125	2.15	
Archwise	3107	224	16	10	.156	2.20	
Arctic	3108	228	14	15	.107.	2.70	
Ardour	3109	229	14	15	.107.	.218	3.00
Area	3110	231	12	21	.050.	.218	3.50
Arena	3111	232	12	21	.050.	.250	3.70
Argent	3112	235	10	32	.10381.	.250	4.50
Argument	3113	236	10	32	.10381.	.281	5.00
Arid	3114	237	8	44	.16509.	.281	5.50
Aridity	3115	238	8	44	.16509.	.343	6.50
Aright	3116	239	6	60	.26250.	.343	8.25
Arise	3117	240	6	60	.26250.	.406	9.50
Arisen	3118	241	5	68	.33102.	.406	9.90
Aristocrat	3119	242	5	68	.33102.	.468	10.25
Ark	3120	243	4	83	.41742.	.406	10.50
Armorer	3122	244	4	83	.41742.	.468	12.50
Armorial	3123	245	3	104	.52634.	.437	12.75
Armorie	3124	245½	3	104	.52634.	.500	14.25
Armory	3125	246	2	118	.66373.	.468	15.75
Armpit	3126	246½	2	118	.66373.	.531-	17.25
Army	3127	247	1	135	.83694.	.500	21.00
Arnot	3128	247½	1	135	.83694.	.562	23.00
Arousing	3129	248	0	179	1.05592.	.531	27.25
Arras	3130	248½	0	179	1.05592.	.593	30.75

Grimshaw White Core Wire—(Continued).

Stranded Conductors, Double Coated, Taped, Black or White Braid.

Code Word.	List No.	Trade No.	B. & S. Gauge.	Safe Carrying Capacity Bare Wire in Amp. 120° F.	Circular Mils. (47) 1 Mil. = .001 inch.	Outside Diam. of Insulation. .001 inch.	List Price, per 100 Ft.
<i>Assayer</i>	3131	704	8	44	16509.	.343	\$8.00
<i>Assaying</i>	3132	705	6	60	26250.	.375	9.50
<i>Assecure</i>	3133	706	6	60	26250.	.437	11.00
<i>Assemblage</i>	3134	707	5	68	33102.	.461	12.00
<i>Assemblance</i>	3135	708	4	83	41742.	.461	14.50
<i>Assembling</i>	3136	709	5	83	41742.	.523	16.00
<i>Assembly</i>	3137	710	3	104	52634.	.483	18.00
<i>Assent</i>	3138	711	3	104	52634.	.545	19.50
<i>Assenter</i>	3139	712	2	118	66373.	.539	20.00
<i>Assenting</i>	3140	713	2	118	66373.	.601	23.00
<i>Assessment</i>	3141	714	1	135	83694.	.544	27.00
<i>Assert</i>	3142	715	1	135	83694.	.606	30.00
<i>Asserted</i>	3143	716	0	179	105592.	.593	30.00
<i>Asserting</i>	3144	717	0	179	105592.	.656	35.50
<i>Assertion</i>	3145	718	00	210	133079.	.656	38.00
<i>Assertive</i>	3146	719	00	210	133079.	.718	43.00
<i>Assessable</i>	3147	720	000	251	167805.	.718	48.00
<i>Assession</i>	3148	721	000	251	167805.	.791	53.00
<i>Assessor</i>	3149	722	0000	275	211600.	.718	58.00
<i>Assesorate</i>	3150	723	0000	275	211600.	.791	63.00

Raven Core Wire—Braided.

Solid.

<i>Deputing</i>	1229	320	18	6	1624.	.125	1.65
<i>Deputy</i>	1230	321	18	6	1624.	.156	1.75
<i>Derange</i>	1231	323	16	10	2583.	.125	1.75
<i>Deranged</i>	1232	324	16	10	2583.	.156	1.85
<i>Derangement</i>	1233	327	14	15	4107.	.156	2.10
<i>Derelict</i>	1234	328	14	15	4107.	.187	2.30
<i>Deride</i>	1235	331	12	21	6530.	.218	3.25
<i>Deriding</i>	1236	332	12	21	6530.	.250	3.55
<i>Derision</i>	1237	334	10	32	10381.	.218	4.00
<i>Derivation</i>	1238	335	10	32	10381.	.250	4.10
<i>Derive</i>	1239	337	8	44	16509.	.281	4.75
<i>Deriving</i>	1241	338	8	44	16509.	.343	5.75
<i>Derogation</i>	1242	339	6	60	26250.	.343	6.50
<i>Derogatory</i>	1243	340	6	60	26250.	.406	8.40
<i>Despotic</i>	1244	341	5	68	33102.	.406	8.90
<i>Despotism</i>	1245	342	5	68	33102.	.468	9.50
<i>Destination</i>	1246	343	4	83	41742.	.406	9.60
<i>Destine</i>	1247	344	4	83	41742.	.468	11.50
<i>Destiny</i>	1248	345	3	104	52634.	.437	11.25
<i>Destitution</i>	1249	346	3	104	52634.	.500	12.75
<i>Destroy</i>	1250	347	2	118	66373.	.468	14.75
<i>Destroying</i>	1251	348	2	118	66373.	.531	16.25
<i>Destructible</i>	1252	349	1	135	83694.	.500	19.00
<i>Destructive</i>	1253	350	1	135	83694.	.562	21.00
<i>Desultory</i>	1254	351	0	179	105592.	.531	26.25
<i>Detach</i>	1255	352	0	179	105592.	.592	29.75



Raven Core Wire—Braided—(Continued).

Stranded.						
Code Word.	List No.	Trade No.	R. & S. Gauge.	Safe Carrying Capacity, R.R. Wire in Amp. 150° F.	Circular Mils. (37) 1 Mil. = .001 inch.	Outside Diam. of Insulation, List Price, per 100 Ft. .001 inch.
<i>Emarginate</i>	1869	804	8	44	16509.	.343 \$6.25
<i>Embassy</i>	1870	805	6	60	26250.	.375 7.75
<i>Embedded</i>	1871	806	6	60	26250.	.437 9.00
<i>Embellish</i>	1872	807	5	68	33102.	.461 9.75
<i>Embers</i>	1873	808	4	83	41742.	.461 12.00
<i>Embezzle</i>	1874	809	4	83	41742.	.523 15.00
<i>Emanated</i>	1875	810	3	104	52634.	.483 16.60
<i>Emanation</i>	1876	811	3	104	52634.	.545 18.00
<i>Emancipate</i>	1877	812	2	118	66373.	.539 19.00
<i>Emancipator</i>	1878	813	2	118	66373.	.601 22.00
<i>Emancipist</i>	1879	814	1	135	83694.	.544 26.00
<i>Emanuel</i>	1880	815	1	135	83694.	.606 29.00
<i>Elude</i>	1881	816	0	179	105592.	.593 28.25
<i>Elvira</i>	1882	817	0	179	105592.	.656 32.15
<i>Emaciate</i>	1883	818	00	210	133079.	.656 36.00
<i>Emaciated</i>	1884	819	00	210	133079.	.718 41.00
<i>Emaculate</i>	1885	820	000	251	167805.	.718 42.50
<i>Emanate</i>	1886	821	000	251	167805.	.729 47.50
<i>Embolden</i>	1887	823	0000	275	211600.	.718 55.00
<i>Embosom</i>	1888	823	0000	275	211600.	.791 60.00

Grimshaw Duplex Fixture Wire.

Taped or Braided.				Safe Carrying Capacity, each Conductor Wire, in Amp. 150° F.	Outside Diam. of Insulation .001 inch.	
Listful	Listless	Listeral	Listeralism	Listeralness	Listeralny	
1169	1170	1171	1172	1173	1174	
Taped.....	"	"	Braided.....	"	"	
14	16	18	14	16	18	
15	10	6	15	10	6	
.218	.218	.218	.218	.218	.218	5.00
4.50	4.00	5.00	4.50	4.00		

Okonite Wire.

LOW TENSION CURRENTS, FROM 100 TO 500 VOLTS.

Solid Conductor, Plain Finish.



Code Word.	List No.	Size of Conductor A. W. G.	Outside Diameter of Insulation, Inches.	Approximate Weight per Mile. Pounds.	Insulation Resistance per Mile. Megohms.	List Price, Per foot.
<i>Ascendant</i>	3158	22	.075	32	500	\$.01½
<i>Ascending</i>	3159	20	.091	42	500	.02½
<i>Ascension</i>	3160	18	.102	56	500	.02½
<i>Ascertain</i>	3161	16	.120	78	500	.03
<i>Ascetic</i>	3162	14	.148	127	500	.04½
<i>Ascribe</i>	3163	12	.165	178	500	.05½
<i>Ascribing</i>	3164	10	.175	236	500	.06½
<i>Ashamed</i>	3165	9	.182	273	500	.07
<i>Ashore</i>	3166	8	.192	333	500	.08
<i>Ashpan</i>	3167	7	.220	422	500	.09½
<i>Assassin</i>	3168	6	.252	534	500	.12½
<i>Assassinate</i>	3169	5	.276	663	500	.15½
<i>Assation</i>	3170	4	.300	815	500	.19½
<i>Assault</i>	3171	3	.340	1,036	500	.23
<i>Assaulted</i>	3172	2	.372	1,238	500	.28
<i>Assaulting</i>	3173	1	.430	1,657	500	.35
<i>Assay</i>	3174	0	.500	2,134	500	.45
<i>Assayed</i>	3175	00	.560	2,693	500	.60

Solid Conductor, Braided Finish.

<i>Alertness</i>	3211	22	.075	40	500	.02½
<i>Alexand</i>	3212	20	.091	50	500	.02½
<i>Alfred</i>	3213	18	.102	66	500	.03
<i>Algebra</i>	3214	16	.120	90	500	.03½
<i>Algebraical</i>	3215	14	.148	143	500	.04½
<i>Algernon</i>	3216	12	.165	195	500	.06
<i>Algous</i>	3217	10	.175	254	500	.07½
<i>Alice</i>	3218	9	.182	291	500	.07½
<i>Alias</i>	3219	8	.192	351	500	.08½
<i>Alienable</i>	3220	7	.220	446	500	.11½
<i>Alienation</i>	3221	6	.252	563	500	.13½
<i>Alienator</i>	3222	5	.276	702	500	.16½
<i>Alience</i>	3223	4	.300	859	500	.19½
<i>Alife</i>	3224	3	.340	1,087	500	.24½
<i>Align</i>	3225	2	.372	1,299	500	.29½
<i>Aliment</i>	3226	1	.430	1,750	500	.37
<i>Alimental</i>	3227	0	.500	2,238	500	.47½
<i>Alimentally</i>	3228	00	.560	2,799	500	.61

Okonite Wire—(Continued).

Stranded Conductor, Plain Finish.



Code Word.	List No.	Size of Conductor Equals. A. W. G.	No. of Strands. B. W. G.	Outside Diameter of Insulation. Inches.	Approx. Weight per Mile. Pounds.	Insulation Resistance per Mile. Megohms.	List Price per foot.
Assistless	3176	22	7x30*	.091	35	500	\$0.02¼
Assize	3177	20	7x30	.102	46	500	.02½
Assized	3178	18	7x26*	.114	63	500	.03½
Assizer	3179	16	7x24	.141	101	500	.04½
Associable	3180	14	7x23	.162	139	500	.05¼
Associate	3181	12	7x20*	.182	191	500	.06½
Associated	3182	11	7x20	.192	214	500	.07½
Associating	3183	10	7x18*	.204	270	500	.08¼
Associative	3184	9	7x17*	.212	325	500	.09¼
Associator	3185	8	7x18	.220	360	500	.09½
Assnil	3186	7	7x17	.238	468	500	.11¼
Assolment	3187	6	7x16	.289	623	500	.15¼
Assonance	3188	5	7x15	.300	735	500	.16¼
Assonant	3189	4	7x14	.340	958	500	.21¼
Assuage	3190	3	7x11*	.380	1,155	500	.26
Assuaged	3191	2	19x17	.440	1,409	500	.34½
Assuaging	3192	1	19x16	.480	1,730	500	.41¼
Assuasive	3193	0	19x15	.530	2,110	500	.50
Assuetude	3194	00	12x12	.590	2,810	500	.61
Assume	3195	000	19x11*	.620	3,120	500	.69
Assumed	3196	0000	19x12	.730	4,460	500	.98

Stranded Conductor, Braided Finish.

Alimentary	3229	22	7x30*	.091	44	500	.02¼
Alimentation	3230	20	7x30	.102	56	500	.03½
Aliquant	3231	18	7x26*	.114	75	500	.03¾
Aliquot	3232	16	7x24*	.144	118	500	.05
Alive	3233	14	7x23	.162	157	500	.06
Alkali	3234	12	7x20*	.182	209	500	.07½
Alkaline	3235	11	7x20	.192	232	500	.08
Alkaloid	3236	10	7x18*	.204	295	500	.09
Alum	3237	9	7x17*	.212	348	500	.10
Alloy	3238	8	7x18	.220	384	500	.10½
Allegation	3239	7	7x17	.238	495	500	.12¼
Allege	3240	6	7x16	.289	666	500	.16¼
Alloging	3241	5	7x15	.300	780	500	.18
Alliant	3242	4	7x14	.340	1,007	500	.22½
Allied	3042	3	7x11*	.380	1,212	500	.27¼
Alligate	3243	2	19x17	.440	1,473	500	.36½
Allision	3244	1	19x16	.480	1,803	500	.42¼
Alliteration	3245	0	19x15	.530	2,192	500	.52
Allopathy	3246	00	12x12*	.590	2,897	500	.63
Allot	3247	000	19x12	.620	3,250	500	.71
Allotment	3248	0000	19x12	.730	4,606	500	1.01

*American Wire Gauge.

Kerite Wire—Solid.



Plain.						
COPPER.				INSULATION.		
Code Word.	List No	B. & S. Gauge.	Diameter of Copper, Mils.	Diameter of Insulation, Mils.	Diameter of Insulation, Inches.	List Price, per 100 Ft.
<i>Haggled</i>	1889	20	.0319	.078	$\frac{5}{16}$	\$1.75
<i>Haggling</i>	1890	20	.0319	.098	$\frac{3}{8}$	1.75
<i>Hailing</i>	1891	18	.040	.078	$\frac{5}{16}$	1.75
<i>Hailstone</i>	1892	18	.040	.098	$\frac{3}{8}$	1.90
<i>Halberd</i>	1893	18	.040	.125	$\frac{1}{2}$	2.00
<i>Halcyon</i>	1894	16	.050	.098	$\frac{3}{8}$	2.00
<i>Halibut</i>	1895	16	.050	.125	$\frac{1}{2}$	2.25
<i>Hilliard</i>	1896	16	.050	.156	$\frac{5}{8}$	2.75
<i>Halter</i>	1897	14	.064	.125	$\frac{3}{8}$	2.50
<i>Halting</i>	1898	14	.064	.156	$\frac{5}{8}$	3.00
<i>Halving</i>	1899	14	.064	.187	$\frac{3}{4}$	3.25
<i>Ham</i>	1900	14	.064	.218	$\frac{7}{8}$	3.75
<i>Hamble</i>	1901	12	.080	.156	$\frac{5}{8}$	3.25
<i>Hamlet</i>	1902	12	.080	.187	$\frac{3}{4}$	3.75
<i>Hammering</i>	1903	12	.080	.250	$\frac{1}{2}$	5.50
<i>Hammock</i>	1904	10	.101	.218	$\frac{3}{4}$	5.75
<i>Hamper</i>	1905	10	.101	.250	$\frac{5}{8}$	6.25
<i>Hampered</i>	1906	8	.128	.218	$\frac{3}{4}$	7.00
<i>Hampering</i>	1907	8	.128	.250	$\frac{5}{8}$	8.25
<i>Hamstring</i>	1908	8	.128	.281	$\frac{7}{8}$	9.75
<i>Haraper</i>	1909	7	.144	.250	$\frac{3}{4}$	8.50
<i>Handcuff</i>	1910	7	.144	.281	$\frac{5}{8}$	10.00
<i>Handcuffed</i>	1911	6	.162	.250	$\frac{3}{4}$	9.00
<i>Handfast</i>	1912	6	.162	.281	$\frac{5}{8}$	9.50
<i>Handicraft</i>	1913	6	.162	.312	$\frac{11}{16}$	10.75
<i>Handiness</i>	1914	5	.181	.281	$\frac{3}{4}$	10.50
<i>Handle</i>	1915	5	.181	.312	$\frac{11}{16}$	11.00
<i>Handling</i>	1916	4	.204	.281	$\frac{7}{8}$	11.50
<i>Hannah</i>	1917	4	.204	.312	$\frac{11}{16}$	12.50
<i>Handscrew</i>	1918	4	.204	.375	$\frac{13}{16}$	14.00
<i>Handsome</i>	1919	3	.229	.375	$\frac{13}{16}$	13.50
<i>Handsomely</i>	1920	3	.229	.437	$\frac{14}{16}$	17.50
<i>Hang</i>	1932	2	.257	.406	$\frac{15}{16}$	19.00
<i>Hanged</i>	1933	2	.257	.468	$\frac{15}{16}$	23.00
<i>Hangng</i>	1934	1	.289	.500	$\frac{15}{16}$	25.00
<i>Hangman</i>	1935	1	.289	.562	$\frac{15}{16}$	27.00
<i>Hangnail</i>	1936	0	.324	.562	$\frac{15}{16}$	30.00
<i>Harker</i>	1937	0	.324	.625	$\frac{21}{16}$	34.00
<i>Hankering</i>	1938	00	.364	.562	$\frac{15}{16}$	35.00
<i>Hapless</i>	1939	00	.364	.625	$\frac{21}{16}$	40.00

Kerite Wire—Solid—(Continued).

Taped or Braided.

		COPPER.		INSULATION.				
Code Word.	List No.	B. & S. Gauge.	Diam. of Copper, Mils.	Diam. of Insulation, Mils.	Diam. of Insulation, Inches.	Outside Diam. Braided, Inches.	List Price, per 100 Ft.	
<i>Happy</i>	1950	20	.0319	.078	$\frac{3}{16}$	$\frac{3}{16}$	\$2.00	
<i>Happen</i>	1951	20	.0319	.093	$\frac{3}{16}$	$\frac{3}{16}$	2.00	
<i>Happening</i>	1952	18	.040	.078	$\frac{3}{16}$	$\frac{3}{16}$	2.00	
<i>Happily</i>	1953	18	.040	.093	$\frac{3}{16}$	$\frac{3}{16}$	2.15	
<i>Happiness</i>	1954	18	.040	.125	$\frac{3}{16}$	$\frac{3}{16}$	2.25	
<i>Happy</i>	1955	16	.050	.093	$\frac{3}{16}$	$\frac{3}{16}$	2.25	
<i>Harangue</i>	1956	16	.050	.125	$\frac{3}{16}$	$\frac{3}{16}$	2.50	
<i>Harangued</i>	1957	16	.050	.156	$\frac{3}{16}$	$\frac{3}{16}$	3.00	
<i>Haranguing</i>	1958	14	.064	.125	$\frac{3}{16}$	$\frac{3}{16}$	2.75	
<i>Harass</i>	1959	14	.064	.156	$\frac{3}{16}$	$\frac{3}{16}$	3.25	
<i>Harassing</i>	1960	14	.064	.187	$\frac{3}{16}$	$\frac{3}{16}$	3.50	
<i>Harbinger</i>	1961	14	.064	.218	$\frac{3}{16}$	$\frac{3}{16}$	4.00	
<i>Harbor</i>	1962	12	.080	.156	$\frac{1}{4}$	$\frac{1}{4}$	3.50	
<i>Harborage</i>	1963	12	.080	.187	$\frac{1}{4}$	$\frac{1}{4}$	4.00	
<i>Habit</i>	1964	12	.080	.250	$\frac{1}{4}$	$\frac{1}{4}$	5.75	
<i>Habitation</i>	1965	10	.101	.218	$\frac{1}{4}$	$\frac{1}{4}$	6.00	
<i>Habited</i>	1966	10	.101	.250	$\frac{1}{4}$	$\frac{1}{4}$	6.50	
<i>Habitual</i>	1967	8	.128	.218	$\frac{1}{4}$	$\frac{1}{4}$	7.25	
<i>Habitude</i>	1968	8	.128	.250	$\frac{1}{4}$	$\frac{1}{4}$	8.50	
<i>Hack</i>	1969	8	.128	.281	$\frac{1}{4}$	$\frac{1}{4}$	10.00	
<i>Hacking</i>	1970	7	.144	.250	$\frac{1}{4}$	$\frac{1}{4}$	9.00	
<i>Hackney</i>	1971	7	.144	.281	$\frac{1}{4}$	$\frac{1}{4}$	10.50	
<i>Haddock</i>	1972	6	.162	.250	$\frac{1}{4}$	$\frac{1}{4}$	9.50	
<i>Hades</i>	1973	6	.162	.281	$\frac{1}{4}$	$\frac{1}{4}$	10.00	
<i>Haggard</i>	1974	6	.162	.312	$\frac{1}{4}$	$\frac{1}{4}$	11.25	
<i>Haggardly</i>	1975	5	.181	.281	$\frac{1}{4}$	$\frac{1}{4}$	11.00	
<i>Haggle</i>	1976	5	.181	.312	$\frac{1}{4}$	$\frac{1}{4}$	11.75	
<i>Embroid</i>	1977	4	.204	.281	$\frac{1}{4}$	$\frac{1}{4}$	12.25	
<i>Embryo</i>	1978	4	.204	.312	$\frac{1}{4}$	$\frac{1}{4}$	13.25	
<i>Embryonic</i>	1979	4	.204	.375	$\frac{1}{4}$	$\frac{1}{4}$	14.75	
<i>Emerge</i>	1980	3	.229	.375	$\frac{1}{4}$	$\frac{1}{4}$	14.50	
<i>Emergency</i>	1981	3	.229	.437	$\frac{1}{4}$	$\frac{1}{4}$	18.50	
<i>Emerging</i>	1982	2	.257	.406	$\frac{1}{4}$	$\frac{1}{4}$	20.00	
<i>Embossing</i>	1983	2	.257	.468	$\frac{1}{4}$	$\frac{1}{4}$	24.00	
<i>Embracing</i>	1984	1	.289	.500	$\frac{1}{4}$	$\frac{1}{4}$	26.00	
<i>Embrasure</i>	1985	1	.289	.562	$\frac{1}{4}$	$\frac{1}{4}$	28.00	
<i>Embrave</i>	1986	0	.324	.562	$\frac{1}{4}$	$\frac{1}{4}$	32.00	
<i>Embroglia</i>	1987	0	.324	.625	$\frac{1}{4}$	$\frac{1}{4}$	36.00	
<i>Embroider</i>	1988	00	.364	.562	$\frac{1}{4}$	$\frac{1}{4}$	38.00	
<i>Emily</i>	1989	00	.364	.625	$\frac{1}{4}$	$\frac{1}{4}$	44.00	

Kerite Wire.—(Continued.)

Stranded Electric Light Conductors.

Plain Insulation.

Gauge B. & S.	Strands.	Insulation Outside Diam Mils. .001 In	Insulation Outside Diam Inches	Price per 100 Feet
6	7 x 14	A 312.5	10-32	11.00
6	7 x 16	B 375	12-32	13.00
6	7 x 16	B 437.5	14-32	16.50
5	7 x 15	B 375	12-32	13.00
5	7 x 15	B 437.5	14-32	17.25
4	7 x 12	A 375	12-32	15.00
4	7 x 12	A 437.5	14-32	18.00
4	7 x 12	A 500	16-32	22.00
3	1 x 12—6 x 14 B	375	12-32	17.50
3	1 x 12—6 x 14 B	406.2	13-32	18.50
3	1 x 12—6 x 14 B	500	15-32	21.00
2	1 x 12—6 x 13 B	406.2	13-32	19.00
2	1 x 12—6 x 13 B	437.5	14-32	20.50
2	1 x 16—18 x 17 B	468.7	15-32	22.00
1	1 x 11—6 x 12 B	457.5	14-32	24.00
1	1 x 15—18 x 16 B	500	16-32	26.00
0	1 x 10—6 x 11 B	562.5	18-32	30.00
0	1 x 14—18 x 15 B	625	20-32	34.00
00	7 x 7	A 562.5	18-32	36.00
00	19 x 12	A 625	20-32	41.00
00	1 x 13—18 x 14 B	687.5	22-32	45.00
000	1 x 8—6 x 9 B	625	20-32	60.00
000	19 x 11	A 687.5	22-32	63.00
000	19 x 11	A 750	24-32	66.00
0000	7 x 7	B 687.5	22-32	76.00
0000	19 x 12	B 750	24-32	82.00
0000	19 x 12	B 812.5	26-32	88.00

Covered Insulation.

Gauge B. & S.	Insulation. Outside Diam. Mils. .001 In.	Insulation. Outside Diam. Inches.	List Prices per 100 Feet.	List Prices per 100 Feet Taped and Braided.*
6	312.5	10-32	12.00	13.00
6	375	12-32	14.00	15.00
6	437.5	14-32	17.50	18.50
5	375	12-32	14.00	15.00
5	437.5	14-32	18.25	19.25
4	375	12-32	16.00	17.00
4	437.5	14-32	19.00	20.00
4	500	16-32	23.00	24.00
3	375	12-32	18.50	19.50
3	406.2	13-32	20.50	21.50
3	500	15-32	22.00	23.00
2	406.2	13-32	20.00	21.00
2	437.5	14-32	21.50	23.00
2	468.7	15-32	23.50	26.00
1	437.5	14-32	25.50	28.00
1	500	16-32	28.00	30.00
0	562.5	18-32	32.00	34.00
0	625	20-32	36.00	38.00
00	562.5	18-32	38.00	40.00
00	625	20-32	43.00	45.00
00	687.5	22-32	47.00	50.00
000	625	20-32	62.00	66.00
000	687.5	22-32	66.00	70.00
000	750	24-32	70.00	75.00
0000	687.5	22-32	80.00	85.00
0000	750	24-32	85.00	90.00
0000	812.5	26-32	93.00	98.00

"CLARK" WIRE.**Clark Wire.****Solid.**

Code Word	List No.	B. & S.	Diam. Wire in the decimal of an inch.	Diam. Gum 3rd of inch.	Total Diam. Outside Braid.	Approximate Pounds Per 100 Feet.	Price Per 100 Feet.
<i>Staggard</i>	24150	18	.040	4-32	5-32	2.35	\$1.65
<i>Staggurdy</i>	24151	16	.051	5-32	6-32	2.70	1.80
<i>Staggish</i>	24152	14	.064	5-32	6-32	3.20	1.80
<i>Staggishly</i>	24153	14	.064	6-32	7-32	3.40	2.00
<i>Stuggy</i>	24154	14	.064	7-32	8-32	4.79	3.00
<i>Stugs</i>	24155	12	.081	6-32	7-32	4.30	2.50
<i>Stuice</i>	24156	12	.081	7-32	8-32	5.30	3.00
<i>Stuicergate</i>	24157	10	.102	8-32	10-32	7.00	4.00
<i>Stuicy</i>	24158	10	.102	9-32	11-32	7.77	4.50
<i>Stum</i>	24159	9	.114	9-32	11-32	8.00	4.60
<i>Stumber</i>	24160	8	.129	9-32	11-32	10.12	4.70
<i>Stumberer</i>	24161	8	.129	10-32	12-32	10.92	6.00
<i>Stumberless</i>	24162	7	.144	9-32	11-32	10.25	6.20
<i>Stumbery</i>	24163	6	.162	10-32	12-32	14.00	7.20
<i>Stump</i>	24164	6	.162	12-32	14-32	15.57	9.00
<i>Stumpy</i>	24165	6	.162	14-32	16-32	18.72	10.80
<i>Stung</i>	24166	5	.182	12-32	14-32	16.00	9.60
<i>Stungshot</i>	24167	4	.204	12-32	14-32	20.33	10.00
<i>Stunk</i>	24168	4	.204	14-32	16-32	21.87	12.00
<i>Stur</i>	24169	3	.229	15-32	17-32	23.00	12.60
<i>Sturred</i>	24170	2	.258	16-32	18-32	31.25	15.30
<i>Stush</i>	24171	1	.289	17-32	20-32	43.78	20.70
<i>Stushy</i>	24172	0	.324	19-32	22-32	50.00	24.00
<i>Stutch</i>	24173	00	.375	21-32	22-32	54.00	30.00
<i>Stutchy</i>	24174	000	.409	23-32	25-32	66.50	37.00
<i>Sty</i>	24175	0000	.460	25-32	27-32	81.00	45.00

Stranded.

<i>Smear</i>	24200	10	....	10-32	12-32	10.94	5.40
<i>Smell</i>	24201	8	....	10-32	12-32	14.06	7.20
<i>Smeller</i>	24202	6	....	12-32	14-32	20.31	10.80
<i>Smelling</i>	24203	4	....	14-32	16-32	21.87	13.00
<i>Smelt</i>	24204	3	....	16-32	19-32	29.69	16.00
<i>Smelter</i>	24205	2	....	17-32	19-32	34.37	18.00
<i>Smeltery</i>	24206	1	....	18-32	21-32	43.75	24.00
<i>Smertlin</i>	24207	0	....	22-32	25-32	59.37	30.00
<i>Smew</i>	24208	00	....	24-32	27-32	65.63	35.00
<i>Smicker</i>	24209	000	....	26-32	29-32	75.50	42.00
<i>Smirket</i>	24210	0000	....	28-32	31-32	90.00	50.00

Flexible Clark Wire.

Diameter of Insulation given is exclusive of Outside Braid.

Made up of No. 26 B. W. G. Wire.

Code Word.	List No.	No. B. & S. Gauge.	Diam. Wire in the decimal of an inch.	Circular Mils D ²	Number of Wires.	Diam. Gum 32d of inch.	Price per 100 Feet.
<i>Smilutine</i>	24212	18	.040	1624.3	5	5-32	\$2.70
<i>Smilae</i>	24214	16	.051	2582.7	8	5-32	2.70
<i>Smile</i>	24215	14	.064	4106.8	13	7-32	3.60
<i>Smileless</i>	24216	12	.081	6529.9	21	8-32	5.40
<i>Smiles</i>	24217	10	.102	10382.	35	9-32	7.20
<i>Smilingly</i>	24218	8	.129	16510.	56	12-32	10.80
<i>Smilingness</i>	24219	7	.144	20617.	63	12-32	12.00
<i>Smirch</i>	24220	6	.162	26250.	84	14-32	14.40
<i>Smirk</i>	24221	5	.182	33102.	105	14-32	18.00
<i>Smirky</i>	24222	4	.204	41742.	126	15-32	21.60
<i>Smite</i>	24223	3	.229	52634	161	17-32	25.20
<i>Smiter</i>	24224	2	.258	66373.	203	18-32	28.80
<i>Smith</i>	24225	1	.289	83694.	250	20-32	32.40
<i>Smither</i>	24226	0	.324	105534.	329	22-32	37.20
<i>Smithery</i>	24227	00	.365	133079.	413	24-32	43.20
<i>Smithing</i>	24228	000	.410	167805.	528	26-32	52.80
<i>Smithsonian</i>	24229	0000	.460	211600.	651	28-32	64.80

Clark Elevator Electric Light Cable.

Braided.

		B. & S.	Diam. Gum 32d of inch.	Total Diam. Braided.	Price per 100 Feet.
<i>Smithy</i>	24230	18 Duplex	6-32	9-32	6.00
<i>Smitt</i>	24231	16 "	9-32	11-32	7.00
<i>Smitten</i>	24232	14 "	12-32	27-64	8.00
<i>Smittle</i>	24233	12 "	.	16-32	14.00



Safety Wire.

Plain, without Tape or Braid.

Code Word.	List No	Gauge B. & S.	Outside Diam. of Insulation.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
<i>Smock</i>	24234	20	3-32	1000	2.25
<i>Smockable</i>	24235	18	4-32	1500	2.50
<i>Smoke</i>	24236	16	4-32	1000	2.75
<i>Smokearch</i>	24237	14	5-32	2000	3.75
<i>Smokeball</i>	24238	12	6-32	1500	4.50
<i>Smokebox</i>	24239	10	6-32	1000	5.50
<i>Smokejack</i>	24240	10	7-32	1500	6.25
<i>Smokeless</i>	24241	8	7-32	1000	7.50
<i>Smoker</i>	24242	8	8-32	1500	8.00
<i>Smokesail</i>	24243	6	9-32	1500	11.25

Gauges from No. 20 to No. 4 Braided. Gauges above No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Braided.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
<i>Smoketree</i>	24244	20	3-32	4-32	1000	2.50
<i>Smokily</i>	24245	18	4-32	5-32	1500	2.50
<i>Smokiness</i>	24246	16	4-32	5-32	1000	3.00
<i>Smakny</i>	24247	14	5-32	6-32	2000	3.85
<i>Smalder</i>	24248	12	6-32	7-32	1500	5.00
<i>Smaldry</i>	24249	10	6-32	7-32	1000	6.75
<i>Smolt</i>	24250	8	8-32	9-32	1500	9.00
<i>Smooth</i>	24251	6	9-32	10-32	1500	12.50
<i>Smoothing</i>	24252	4	11-32	12-32	1000	16.50
<i>Smoothing</i>	24253	2	13-32	14-32	1000	25.00
<i>Smoothly</i>	24254	1	15-32	16-32	1200	35.00

Stranded Conductors.

Heavy Insulation, Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Taped and Braided.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
<i>Smoothness</i>	24255	8	9-32	11-32	1200	10.00
<i>Smoothness</i>	24256	6	10-32	12-32	1200	14.50
<i>Smother</i>	24257	6	11-32	13-32	1500	17.50
<i>Smothery</i>	24258	4	12-32	14-32	1000	21.00
<i>Smouch</i>	24259	4	13-32	15-32	1500	25.00
<i>Smudge</i>	24260	2	15-32	17-32	1500	28.50
<i>Smug</i>	24261	1	16-32	18-32	1200	37.50
<i>Smuggle</i>	24262	0	19-32	21-32	1500	48.00
<i>Smugly</i>	24263	00	.....	22-32	1500	58.50
<i>Smugness</i>	24264	000	.....	24-32	1500	72.50
<i>Smuly</i>	24265	0000	.....	26-32	1500	90.00

Safety Lead Incased Wire.

For Underground Purposes.

Covered with Heavy Rubber Insulation. Taped and Lead Incased.

Code Word.	List No.	Sizes, B. & S. Gauge.		Price per Foot.
<i>Smu</i>	24266	0000	Stranded.	\$1.00
<i>Smutch</i>	24267	000	"	.90
<i>Smymint</i>	24268	00	"	.80
<i>Snack</i>	24269	0	"	.70
<i>Snackit</i>	24270	1	"	.64
<i>Snackit</i>	24271	1	Solid.	.60
<i>Snaffle</i>	24272	2	Stranded.	.56
<i>Snag</i>	24273	2	Solid.	.54
<i>Snaggy</i>	24274	4	Stranded.	.50
<i>Snaggy</i>	24275	4	Solid.	.36
<i>Snail</i>	24276	6	Stranded.	.36
<i>Snake</i>	24277	6	Solid.	.32
<i>Snakeroot</i>	24278	7	Stranded.	.30
<i>Snakeroot</i>	24279	7	Solid.	.26
<i>Snakeood</i>	24280	8	Stranded.	.26
<i>Snakish</i>	24281	8	Solid.	.22
<i>Snaky</i>	24282	10	"	.18
<i>Snag</i>	24283	12	"	.12
<i>Snaplock</i>	24284	14	"	.07

Safety Flexible Cables.

For Switchboards, Dynamos and Lamps.

Composed of Fine Copper Wire, No. 25 B. & S. Gauge, well Tinned
Taped and Braided.

		Equal in Conductivity to B. & S. Gauge No.	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
<i>Snapper</i>	24285	14	1000	12.00
<i>Snappish</i>	24286	12	1000	13.00
<i>Snappishly</i>	24287	10	1000	13.50
<i>Snappy</i>	24288	9	1000	14.00
<i>Snave</i>	24289	8	1000	15.00
<i>Snarl</i>	24290	6	1000	16.50
<i>Snarler</i>	24291	4	1000	20.00
<i>Snary</i>	24292	2	1000	30.00
<i>Snatch</i>	24293	1	1000	40.00
<i>Snatcher</i>	24294	0	1000	50.00
<i>Snatchingly</i>	24295	00	1000	60.00
<i>Snath</i>	24296	000	1000	75.00
<i>Snead</i>	24297	0000	1000	95.00

Safety White Core Wire.

Stranded Conductor.

Taped and Braided.

Code Word.	List No.	Gauge B. & S.	Outside Diam. of Insulation	Insulation Resistance per Mile Megohms	Price per 100 Feet
<i>Soele</i>	24380	0	21-32	1500	48.80
<i>Socman</i>	24381	00	22-32	1500	59.30
<i>Socmanry</i>	24382	000	24-32	1500	73.30
<i>Socky</i>	24379	0000	26-32	1500	90.80

Solid Conductor.

Gauges from No. 20 to No. 4 Braided. Gauges above
No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Braided.	Insulation Resistance per Mile Megohms.	Price per 100 Feet.
<i>Socin</i>	24368½	20	3-32	4-32	1000	2.90
<i>Socinness</i>	24369	18	4-32	5-32	1500	2.90
<i>Socity</i>	24370	16	4-32	5-32	1000	3.40
<i>Societ</i>	24371	14	5-32	6-32	2000	4.25
<i>Socinian</i>	24372	12	6-32	7-32	1500	5.40
<i>Socinianism</i>	24373	10	6-32	7-32	1000	7.15
<i>Socinology</i>	24374	8	8-32	9-32	1500	9.40
<i>Socinologic</i>	24375	6	9-32	10-32	1500	13.30
<i>Sock</i>	24376	4	11-32	12-32	1000	17.30
<i>Sockolayer</i>	24377	2	13-32	14-32	1000	25.80
<i>Sockless</i>	24878	1	15-32	16-32	1200	35.80

Low Tension Simplex Cables.

Tape and Two Braids over Rubber.

Stranded Conductor.

Code Word.	List No.	Size.	Strands.	Weight per mile incl'd g Reels.	Outside Diameter.	Price per 1,000 Feet.
<i>Softner</i>	24413	2,000,000 C. M.	91	45,000	2 6-32	\$3247.60
<i>Softness</i>	24414	1,750,000 "	91	40,000	2 2-32	2859.80
<i>Saggy</i>	24415	1,500,000 "	91	35,000	1 30-32	2474.50
<i>Soil</i>	24416	1,250,000 "	61	29,000	1 25-32	2072.20
<i>Soiliness</i>	24417	1,000,000 "	61	23,000	1 18-32	1665.00
<i>Soilless</i>	24418	950,000 "	61	22,000	1 17-32	1578.90
<i>Soilure</i>	24419	900,000 "	61	21,000	1 16-32	1514.50
<i>Soily</i>	24420	850,000 "	61	20,000	1 15-32	1430.60
<i>Soirc</i>	24421	800,000 "	61	19,000	1 13-32	1332.50
<i>Sojourn</i>	24422	750,000 "	61	18,000	1 12-32	1257.20
<i>Sojourner</i>	24423	700,000 "	61	17,000	1 11-32	1184.40
<i>Sojourning</i>	24424	650,000 "	61	16,000	1 10-32	1104.20
<i>Sol</i>	24425	600,000 "	61	15,000	1 9-32	1031.50
<i>Solace</i>	24426	550,000 "	61	14,000	1 8-32	965.50
<i>Solacement</i>	24427	500,000 "	61	12,500	1 6-32	873.60
<i>Solacious</i>	24428	450,000 "	37	11,500	1 4-32	776.00
<i>Solannicious</i>	24429	400,000 "	37	10,500	1 3-32	706.40
<i>Solander</i>	24430	350,000 "	37	9,000	1	609.60
<i>Solunine</i>	24431	300,000 "	37	8,000	31-32	540.90
<i>Solino</i>	24432	250,000 "	37	7,000	29-32	459.70

Simplex Lead-Covered Cables, Low Tension.

Stranded Conductor.

Code Word.	List No.	Size.	Strands.	Wall Lead.	Outside Diameter.	Price per 1,000 Ft.
<i>Socome</i>	24383	1,000,000 C. M.	61	3-32	1 22-32	\$1958.10
<i>Socatran</i>	24384	900,000 "	61	3-32	1 20-32	1837.48
<i>Socatrine</i>	24385	800,000 "	61	3-32	1 18-32	1677.84
<i>Socratie</i>	24386	700,000 "	61	3-32	1 13-32	1400.04
<i>Socratically</i>	24387	600,000 "	61	3-32	1 11-32	1254.60
<i>Socratism</i>	24388	500,000 "	61	5-64	1 8-32	1078.76
<i>Socratist</i>	24389	400,000 "	37	5-64	1 4-32	864.36
<i>Sod</i>	24390	300,000 "	37	5-64	1 1-32	705.40
<i>Soda</i>	24391	250,000 "	37	5-64	30-32	587.50

B. & S.
Gauge.

<i>Sodalite</i>	24392	0000	37	5-64	29-32	540.40
<i>Sodality</i>	24393	000	37	5-64	27-32	458.40
<i>Soducater</i>	24394	00	19	5-64	25-32	381.86
<i>Sodden</i>	24395	0	19	5-64	24-32	342.88
<i>Soddy</i>	24396	1	19	1-16	20-32	245.44
<i>Soder</i>	24397	2	19	1-16	19-32	217.64
<i>Sodium</i>	24398	3	19	1-16	18-32	185.58
<i>Sodomite</i>	24399	4	19	1-16	17-32	163.50
<i>Sodomitical</i>	24400	6	19	1-16	16-32	138.16

Solid Conductor.

<i>Sofa</i>	24401	1		1-16	19-32	224.52
<i>Sofett</i>	24402	2		1-16	18-32	195.58
<i>Sofi</i>	24403	3		1-16	17-32	170.26
<i>Sofism</i>	24404	4		1-16	16-32	147.32
<i>Soffet</i>	24405	6		1-16	15-32	121.82
<i>Soft</i>	24406	8		1-16	14-32	101.00
<i>Soften</i>	24407	10 (8-32)		3-64	12-32	67.26
<i>Softener</i>	24408	10 (7-32)		3-64	10-32	56.32
<i>Softish</i>	24409	12 (7-32)		3-64	10-32	53.62
<i>Softling</i>	24410	12 (6-32)		3-64	9-32	49.80
<i>Softly</i>	24411	14 (6-32)		3-64	9-32	48.28
<i>Softman</i>	24412	14 (5-32)		3-64	8-32	39.96

Simplex Caoutchouc Wire.

Solid Conductor, Braided.

Code Word.	List No.	Size. B. & S. Gauge.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
<i>Sneak</i>	24298	1	14-32	17-32	.31½
<i>Sneaker</i>	24299	2	13-32	16-32	.26½
<i>Sneaking</i>	24300	3	12-32	15-32	.22½
<i>Sneakingness</i>	24301	4	11-32	14-32	.17½
<i>Sneap</i>	24302	5	10-32	12-32	.15
<i>Sneek</i>	24303	6	9-32	11-32	.12½
<i>Sneekband</i>	24304	7	17-64	21-64	.11
<i>Sned</i>	24305	8	8-32	10-32	.09½
<i>Sneer</i>	24306	9	15-64	9-32	.08½
<i>Sneever</i>	24307	10	7-32	8-32	.07½
<i>Sneerful</i>	24308	12	6-32	7-32	.05½
<i>Sneeringly</i>	24309	14	5-32	6-32	.03½
<i>Sneezo</i>	24310	16	9-34	11-64	.03½
<i>Sneezewood</i>	24311	18	4-32	5-32	.03½

Stranded Conductor, Braided.

		Size B. & S. Gauge.	Number of Strands.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
<i>Sneezewort</i>	24312	0000	37	22-32	26-32	.76
<i>Sneezewood</i>	24313	000	37	20-32	24-32	.64
<i>Snell</i>	24314	00	19	18-32	22-32	.50½
<i>Snep</i>	24315	0	19	17-32	21-32	.44½
<i>Snickup</i>	24316	1	19	15-32	18-32	.34½
<i>Snicker</i>	24317	2	19	14-32	17-32	.31½
<i>Sniff</i>	24318	3	7	13-32	16-32	.25
<i>Snift</i>	24319	4	7	12-32	15-32	.21½
<i>Snig</i>	24320	5	7	11-32	14-32	.17½
<i>Snigger</i>	24321	6	7	10-32	12-32	.14½
<i>Sniggle</i>	24322	7	7	19-64	23-64	.12½
<i>Snip</i>	24323	8	7	9-32	11-32	.11½
<i>Snipe</i>	24324	9	7	17-64	10-32	.11
<i>Snipebill</i>	24325	10	7	8-32	9-32	.09½
<i>Snipefish</i>	24326	12	7	7-32	8-32	.07½
<i>Snipper</i>	24327	14	7	6-32	7-32	.06½
<i>Snipanop</i>	24328	16	7	5-32	6-32	.04½

Climax Wire.

Solid Conductors, Braided.

Code Word.	List No.	Size B. & S. Gauge.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
<i>Snithy</i>	24329	1	14-32	16-32	\$.29½
<i>Snicel</i>	24330	2	13-32	15-32	.24½
<i>Sniveler</i>	24331	3	12-32	14-32	.20½
<i>Snively</i>	24332	4	11-32	25-64	.16½
<i>Snob</i>	24333	5	10-32	11-32	.13½
<i>Snobbery</i>	24334	6	9-32	10-32	.10½
<i>Snobbish</i>	24335	8	8-32	9-32	.08
<i>Snobbishly</i>	24336	10	7-32	8-32	.05½
<i>Snobbishness</i>	24337	12	6-32	7-32	.04½
<i>Snobbism</i>	24338	14	5-32	6-32	.03½

Stranded Conductors, Braided.

		B. & S. Gauge.	No. of Strands.	Diam. over Rubber.	Diam. over Braiding.	
<i>Snaking</i>	24339	0000	37	22-32	25-32	.73
<i>Snaky</i>	24340	000	37	20-32	23-32	.60½
<i>Snot</i>	24341	00	19	18-32	21-32	.48
<i>Snot</i>	24342	0	19	17-32	20-32	.41
<i>Soapsuds</i>	24343	1	19	15-32	17-32	.31½
<i>Soapwort</i>	24344	2	19	14-32	16-32	.26½
<i>Soapy</i>	24345	3	7	13-32	15-32	.21½
<i>Soar</i>	24346	4	7	12-32	27-64	.18
<i>Sob</i>	24347	5	7	11-32	12-32	.15½
<i>Sober</i>	24348	6	7	10-32	11-32	.12½
<i>Soberize</i>	24349	8	7	9-32	10-32	.09½
<i>Soberly</i>	24350	10	7	8-32	9-32	.07½

Simplex Caoutchouc Mining Wire.

Solid Conductor.

		B. & S. Gauge.	Diam. over Rubber.	Covering over Rubber.	
<i>Soberness</i>	24351	1	17-32	Tape and 3 Braids.	.44½
<i>Soboles</i>	24352	2	16-32	" 3 "	.39½
<i>Soboliferous</i>	24353	3	15-32	" 2 "	.33
<i>Sobriety</i>	24354	4	14-32	" 2 "	.28½
<i>Sobriquet</i>	24355	5	12-32	3 Braids.	.21½
<i>Soc</i>	24356	6	11-32	3 "	.18½
<i>Socage</i>	24357	8	9-32	3 "	.13½
<i>Sociger</i>	24358	10	8-32	3 "	.10½
<i>Sociability</i>	24359	12	7-32	3 "	.08½
<i>Sociable</i>	24360	14	6-32	3 "	.06½

Stranded Conductor.

		B. & S. Gauge.	No. of Strands.	Diam. over Rubber.	Covering over Rubber.	
<i>Sociableness</i>	24361	0000	37	26-32	Tape and 3 Braids.	1.03
<i>Sociably</i>	24362	000	37	24-32	" 3 "	.88½
<i>Social</i>	24363	00	19	22-32	" 3 "	.73½
<i>Socialism</i>	24364	0	19	20-32	" 3 "	.62½
<i>Socialist</i>	24365	1	19	18-32	" 3 "	.52½
<i>Socialistic</i>	24366	2	19	17-32	" 3 "	.44½
<i>Socialize</i>	24367	3	7	16-32	" 2 "	.36½
<i>Socially</i>	24368	4	7	15-32	" 2 "	.32½

Magnet Wire.

Single Cotton Covered.



Nos. 3879 to 3901.



Nos. 1700 to 1720.

Code Word.	List No.	B. & S. Gauge Size.	List Price.
<i>Alluminor</i>	3879	0000 Per pound.....	\$0.44
<i>Allured</i>	3880	000 "	.44
<i>Allusive</i>	3881	00 "	.44
<i>Allusively</i>	3882	0 "	.44
<i>Alaandine</i>	3883	1 "	.43
<i>Almightily</i>	3884	2 "	.43
<i>Almighty</i>	3885	3 "	.43
<i>Almhouse</i>	3886	4 "	.43
<i>Alasz</i>	3887	5 "	.44
<i>Aloud</i>	3888	6 "	.44
<i>Alph</i>	3889	7 "	.44
<i>Alphabet</i>	3890	8 "	.44
<i>Alpin</i>	3891	9 "	.46
<i>Already</i>	3892	10 "	.46
<i>Alt</i>	3893	11 "	.48
<i>Altar</i>	3894	12 "	.48
<i>Alterable</i>	3895	13 "	.54
<i>Alterage</i>	3896	14 "	.54
<i>Altered</i>	3897	15 "	.59
<i>Alternate</i>	3898	16 "	.56
<i>Alternative</i>	3899	17 "	.59
<i>Alternatively</i>	3900	18 "	.59
<i>Alternity</i>	3901	19 "	.60
<i>Flingling</i>	1700	20 "	.68
<i>Joan</i>	1701	21 "	.70
<i>Jockey</i>	1702	22 "	.76
<i>Jockeying</i>	1703	23 "	.83
<i>Jean</i>	1704	24 "	.90
<i>Jears</i>	1705	25 "	1.00
<i>Jeer</i>	1706	26 "	1.10
<i>Jeered</i>	1707	27 "	1.25
<i>Jeerer</i>	1708	28 "	1.35
<i>Jeering</i>	1709	29 "	1.50
<i>Jungly</i>	1710	30 "	1.65
<i>Junior</i>	1711	31 "	1.80
<i>Jockeyism</i>	1712	32 "	1.95
<i>John</i>	1713	33 "	2.40
<i>Joinder</i>	1714	34 "	2.85
<i>Jollify</i>	1715	35 "	3.25
<i>Jolliment</i>	1716	36 "	4.37
<i>Jollity</i>	1717	37 "	6.75
<i>Jonas</i>	1718	38 "	9.00
<i>Jonathan</i>	1719	39 "	11.00
<i>Joseph</i>	1720	40 "	13.00

Magnet Wire—(Continued).

Double Cotton Covered.



Nos. 3902 to 3921.



Nos. 1721 to 1741.

Code Word.	List No.	B. & S. Gauge Size.	List Price.
<i>Although</i>	3902	0000 Per pound.....	\$0.45
<i>Altitude</i>	3903	000 ".....	.45
<i>Alum</i>	3904	00 ".....	.45
<i>Always</i>	3905	0 ".....	.45
<i>Amain</i>	3906	1 ".....	.43½
<i>Ambrose</i>	3907	2 ".....	.43½
<i>Ambrosia</i>	3908	3 ".....	.43½
<i>Ambrosial</i>	3909½	4 ".....	.43½
<i>Ambrosian</i>	3910	5 ".....	.45
<i>Ambry</i>	3911	6 ".....	.45
<i>Ambulant</i>	3912	7 ".....	.47
<i>Ambulate</i>	3913	8 ".....	.47
<i>Ambulation</i>	3914	9 ".....	.48½
<i>Ambulative</i>	3915	10 ".....	.48½
<i>Ambulatory</i>	3916	11 ".....	.52
<i>Ambuscade</i>	3917	12 ".....	.52
<i>Ambuscaded</i>	3918	13 ".....	.58
<i>Ambushed</i>	3919	14 ".....	.58
<i>Amelia</i>	3920	15 ".....	.60
<i>Amenable</i>	3921	16 ".....	.60
<i>Amend</i>	3922	17 ".....	.65½
<i>Amended</i>	3923	18 ".....	.65½
<i>Amendment</i>	3924	19 ".....	.71½
<i>Joyful</i>	1721	20 ".....	.74
<i>Joyfully</i>	1722	21 ".....	.88
<i>Joyfulness</i>	1723	22 ".....	.95
<i>Joyous</i>	1724	23 ".....	1.05
<i>Joyously</i>	1725	24 ".....	1.14
<i>Joyousness</i>	1726	25 ".....	1.27
<i>Jubilant</i>	1727	26 ".....	1.38
<i>Jubilate</i>	1728	27 ".....	1.57
<i>Jubilation</i>	1729	28 ".....	1.69
<i>Judah</i>	1730	29 ".....	1.89
<i>Judicial</i>	1731	30 ".....	2.07
<i>Judicious</i>	1732	31 ".....	2.23
<i>Josaphine</i>	1733	32 ".....	2.28
<i>Joshua</i>	1734	33 ".....	2.85
<i>Josiah</i>	1735	34 ".....	3.42
<i>Jostle</i>	1736	35 ".....	3.88
<i>Jostled</i>	1737	36 ".....	4.93
<i>Jore</i>	1738	37 ".....	7.25
<i>Jocial</i>	1739	38 ".....	9.50
<i>Jocialty</i>	1740	39 ".....	12.00
<i>Joy</i>	1741	40 ".....	15.00

Magnet Wire—(Continued).



Single Silk Covered.

Code Word.	List No.		List Price.
<i>Jeopardy</i>	1650	No 16 per pound.....	\$1.12
<i>Jejooa</i>	1651	" 17, "	1.12
<i>Jeremiad</i>	1652	" 18, "	1.15
<i>Jeremiah</i>	1653	" 19, "	1.15
<i>Jerker</i>	1654	" 20, "	1.18
<i>Jerkin</i>	1655	" 21, "	1.20
<i>Jersey</i>	1656	" 22, "	1.30
<i>Jerusha</i>	1657	" 23, "	1.42
<i>Jerwin</i>	1658	" 24, "	1.56
<i>Jested</i>	1659	" 25, "	1.81
<i>Jester</i>	1660	" 26, "	2.10
<i>Jeetful</i>	1661	" 27, "	2.25
<i>Jeeting</i>	1662	" 28, "	2.38
<i>Jeuit</i>	1663	" 29, "	2.75
<i>Jehovah</i>	1664	" 30, "	2.95
<i>Jehovist</i>	1665	" 31, "	3.25
<i>Jelly</i>	1666	" 32, "	3.45
<i>Jemima</i>	1667	" 33, "	3.90
<i>Jennet</i>	1668	" 34, "	4.10
<i>Jenneting</i>	1669	" 35, "	5.85
<i>Jentling</i>	1670	" 36, "	7.00
<i>Jeopard</i>	1671	" 37, "	11.00
<i>Jeoparder</i>	1672	" 38, "	13.00
<i>Jeoparding</i>	1673	" 39, "	15.00
<i>Jeopardize</i>	1674	" 40, "	20.00

Double-Silk Covered.

<i>Jesuitic</i>	1675	No. 16, per pound.....	1.53
<i>Jetsam</i>	1676	" 17 "	1.53
<i>Jettison</i>	1677	" 18 "	1.57
<i>Jetteau</i>	1678	" 19 "	1.57
<i>Jetty</i>	1679	" 20, "	1.61
<i>Jewel</i>	1680	" 21 "	1.63
<i>Jeweled</i>	1681	" 22, "	1.76
<i>Jeweler</i>	1682	" 23, "	1.93
<i>Jeweling</i>	1683	" 24, "	2.13
<i>Jewelry</i>	1684	" 25, "	2.48
<i>Jewess</i>	1685	" 26, "	2.88
<i>Jewish</i>	1686	" 27, "	3.07
<i>Jib</i>	1687	" 28, "	3.23
<i>Jibboom</i>	1688	" 29, "	3.76
<i>Jibdoor</i>	1689	" 30, "	4.02
<i>Jibe</i>	1690	" 31, "	4.40
<i>Jibing</i>	1691	" 32, "	4.53
<i>Jigger</i>	1692	" 33, "	5.10
<i>Jiggish</i>	1693	" 34, "	5.30
<i>Jiggling</i>	1694	" 35, "	7.78
<i>Jill</i>	1695	" 36, "	8.88
<i>Jilted</i>	1696	" 37, "	13.63
<i>Jilting</i>	1697	" 38, "	14.50
<i>Jingle</i>	1698	" 39, "	18.00
<i>Jingled</i>	1699	" 40, "	23.00

German Silver Resistance Wire.

WOUND WITH COTTON OR SILK—COVERING FIRMLY ADHERING TO THE
WIRE—AMERICAN OR BROWN & SHARPE GAUGE.



Cotton Covered.

	List Price Single.		List Price Double.
No. 16, per pound.....	\$1.40	No. 16, per pound.....	\$1.70
" 17, "	1.40	" 17, "	1.70
" 18, "	1.40	" 18, "	1.70
" 19, "	1.40	" 19, "	1.70
" 20, "	1.42	" 20, "	1.74
" 21, "	1.44	" 21, "	1.75
" 22, "	1.52	" 22, "	1.83
" 23, "	1.62	" 23, "	1.98
" 24, "	1.71	" 24, "	2.09
" 25, "	1.84	" 25, "	2.26
" 26, "	2.05	" 26, "	2.48
" 27, "	2.25	" 27, "	2.73
" 28, "	2.45	" 28, "	2.98
" 29, "	2.60	" 29, "	3.13
" 30, "	2.84	" 30, "	3.38
" 31, "	3.09	" 31, "	3.66
" 32, "	3.59	" 32, "	4.21
" 33, "	3.96	" 33, "	4.64
" 34, "	4.61	" 34, "	5.44
" 35, "	5.01	" 35, "	5.69
" 36, "	8.09	" 36, "	8.88
" 37, "	13.00	" 37, "	13.75
" 38, "	24.00	" 38, "	27.00
" 39, "	27.00	" 39, "	30.00
" 40, "	30.00	" 40, "	33.00



Silk Covered.

No. 16, per pound.....	1.85	No. 16, per pound.....	2.38
" 17, "	1.85	" 17, "	2.38
" 18, "	1.85	" 18, "	2.38
" 19, "	1.85	" 19, "	2.38
" 20, "	1.88	" 20, "	2.43
" 21, "	1.93	" 21, "	2.48
" 22, "	2.06	" 22, "	2.64
" 23, "	2.21	" 23, "	2.87
" 24, "	2.37	" 24, "	3.08
" 25, "	2.65	" 25, "	3.48
" 26, "	3.02	" 26, "	3.93
" 27, "	3.23	" 27, "	4.20
" 28, "	3.42	" 28, "	4.43
" 29, "	3.85	" 29, "	5.00
" 30, "	4.14	" 30, "	5.33
" 31, "	4.52	" 31, "	5.81
" 32, "	4.94	" 32, "	6.23
" 33, "	5.46	" 33, "	6.89
" 34, "	5.84	" 34, "	7.29
" 35, "	7.52	" 35, "	9.45
" 36, "	10.00	" 36, "	11.75
" 37, "	18.50	" 37, "	22.00
" 38, "	28.00	" 38, "	33.00
" 39, "	30.00	" 39, "	40.00
" 40, "	45.00	" 40, "	50.00

Weatherproof Wire—Triple Braid.

SPECIAL PRICES QUOTED ON APPLICATION.



Code Word.	List No.	Size, B. & S. Gauge.	Circular Mills.	Weight per 1,000 ft.	Weight per Mile.	Price per lb.
<i>Notify</i>	6761	....	500000.	1867	9858	.....
<i>Notion</i>	6762	....	450000.	1680	8870	.....
<i>Nimbleness</i>	6763	....	400000.	1493	7893	.....
<i>Nimb</i>	6764	....	350000.	1307	6901	.....
<i>Nimbus</i>	6765	....	300000.	1120	5914	.....
<i>Ninefold</i>	6766	....	250000.	993	4926	.....
<i>Ninepins</i>	6768	0000	211600.	739	3902	.....
<i>Nanny</i>	6769	000	167805.	508	3157	.....
<i>Nip</i>	6770	00	133079.2	485	2561	.....
<i>Nippers</i>	6771	0	105534.0	395	2086	.....
<i>Nitid</i>	6772	1	83694.0	313	1653	.....
<i>Niter</i>	6773	2	66373.0	251	1325	.....
<i>Nitrate</i>	6774	3	52633.4	205	1082	.....
<i>Nitric</i>	6775	4	41742.5	168	887	.....
<i>Nitrogen</i>	6776	5	33102.3	139	734	.....
<i>Nitrous</i>	6777	6	26250.5	113	597	.....
<i>Nobility</i>	6778	8	16509.0	74	391	.....
<i>Noble</i>	6779	10	10381.0	51	269	.....
<i>Nobleman</i>	6780	12	6529.9	37	170	.....
<i>Nobleness</i>	6781	14	4107.	23	118	.....
<i>Noblesse</i>	6782	16	2583.	16	81	.....
<i>Nobly</i>	6783	18	1624.	12	58	.....

Weatherproof Wire—Triple Braid.

SPECIAL PRICES QUOTED ON APPLICATION.

Hard Drawn Copper.

<i>Hawnted</i>	8749	No.	8, B. & S.,	per mile.....	.....
<i>Hawnting</i>	8750	"	9, " "	.....	.....
<i>Havoc</i>	8751	"	10, " "	.....	.....
<i>Hawk</i>	8752	"	12, " "	.....	.....
<i>Hawking</i>	8753	"	14, " "	.....	.....

Triple Braid Weatherproof Iron Wire.

SPECIAL PRICES QUOTED ON APPLICATION.

<i>Hazard</i>	9073	No.	8, B. W. G.,	per mile.....	.....
<i>Hazarded</i>	9074	"	9, " "	.....	.....
<i>Hazarding</i>	9075	"	10, " "	.....	.....
<i>Hazardous</i>	9076	"	11, " "	.....	.....
<i>Helen</i>	9077	"	12, " "	.....	.....
<i>Henry</i>	9078	"	14, " "	.....	.....

Underwriters' Wire.

SPECIAL PRICES QUOTED ON APPLICATION.



Code Word.	List No.	Nos. B. & S. Gauge.	APPROXIMATE WEIGHT INSULATED.		Price per lb.
			Per 1,000 ft	Per Mile.	
<i>Jabber</i>	1600	0000	670	3538	.....
<i>Jabberer</i>	1601	000	555	2930	.....
<i>Jabbering</i>	1602	00	440	2323	.....
<i>Jacamar</i>	1603	0	356	1880	.....
<i>Jackul</i>	1604	1	284	1500	.....
<i>Jackanapes</i>	1605	2	235	1240	.....
<i>Jackuss</i>	1606	3	190	1003	.....
<i>Jackblock</i>	1607	4	158	834	.....
<i>Jackdare</i>	1608	5	127	670	.....
<i>Jacob</i>	1609	6	102	538	.....
<i>Jacobin</i>	1610	7	85	449	.....
<i>Jacobine</i>	1611	8	69	364	.....
<i>Jacobinize</i>	1612 ½	10	47	252	.....
<i>Jacobus</i>	1615	12	31	163	.....
<i>Jade</i>	1617	14	20	105	.....
<i>Jatting</i>	1619	16	15	79	.....
<i>Jagged</i>	1621	18	..	....	.....

Fire and Weatherproof Wire.

SPECIAL PRICES QUOTED ON APPLICATION.

Triple Braid.



<i>Japanner</i>	1624	0000	753	3977	.....
<i>Jarble</i>	1625	000	594	3136	.....
<i>Jargle</i>	1626	00	500	2640	.....
<i>Jargon</i>	1627	0	375	1980	.....
<i>Jasmin</i>	1628	1	304	1605	.....
<i>Jasper</i>	1629	2	250	1320	.....
<i>Jaspoid</i>	1630	3	210	1108	.....
<i>Jaundice</i>	1631	4	169	892	.....
<i>Juvel</i>	1632	5	135	712	.....
<i>Jacelin</i>	1633	6	110	580	.....
<i>Jacbone</i>	1634	7	93	491	.....
<i>Jay</i>	1635	8	80	422	.....
<i>Jaguar</i>	1637	10	55	290	.....
<i>Jambee</i>	1639	12	38	200	.....
<i>Jane</i>	1641	14	26	137	.....
<i>Jangle</i>	1643	16	20	106	.....
<i>Jangling</i>	1645	18	...	...	.....

Flexible Incandescent Lamp Cord.



Taped.

Silk Covered.

Code Word.	List No.	Gauge.	Conductor.	Price per Yard.
<i>Cannibal</i>	3956	No. 22, B. & S.	10x30 Wires.	\$.12
<i>Cannon</i>	3957	" 20, "	14x30 "	.12
<i>Cannondale</i>	3958	" 18, "	16x30 "	.16
<i>Canny</i>	3959	" 16, "	25x30 "	.19
<i>Canoe</i>	3960	" 14, "	40x30 "	.29
<i>Canonical</i>	3961	" 12, "	60x30 "	.40
<i>Canonize</i>	3962	" 10, "	118x30 "	.50

Cotton or Worsted.

		Gauge.	Conductor.	
<i>Canopy</i>	3963	No. 22, B. & S.	10x30 Wires	.07
<i>Cantata</i>	3964	" 20, "	14x30 "	.07
<i>Cantation</i>	3965	" 18, "	16x30 "	.09
<i>Cantten</i>	3966	" 16, "	25x30 "	.12
<i>Canter</i>	3967	" 14, "	40x30 "	.21
<i>Canterbury</i>	3968	" 12, "	60x30 "	.32
<i>Cantering</i>	3969	" 10, "	118x30 "	.42

Unless otherwise specified, we furnish on orders green and gold.

Galvanized Steel Wire Strand.



	7 Wires.	No.	Diam.	Weight per 100 Feet.	Breaking Strength.	Per 100 ft.
<i>Aboriginal</i>	3052	8	1/4 in.	52 lbs.	8,320 lbs.	2.40
<i>Aborigines</i>	3053	9	15/32 "	42 "	6,720 "	2.05
<i>Aborsement</i>	3054	10	16 "	36 "	6,720 "	1.80
<i>Coups</i>	3055	11	7/8 "	29 "	4,040 "	1.50
<i>Coupling</i>	3056	12	16 "	21 "	3,360 "	1.15
<i>Coupon</i>	3057	13	5/8 "	16 "	2,560 "	.90
<i>Abound</i>	3058	14	1 1/4 "	12 "	1,920 "	.70
<i>Abounding</i>	3059	15	3/4 "	10 "	1,600 "	.60
<i>Above</i>	3060	16	7/8 "	8 "	1,280 "	.55
<i>Abode</i>	3061	17	3/4 "	6 1/2 "	960 "	.42
<i>Abraham</i>	3092	18	1 1/4 "	4 3/4 "	688 "	.38
<i>Abrastron</i>	3063	19	6/8 "	3 1/2 "	528 "	.35
<i>Abreast</i>	3093	20	5/8 "	2 1/2 "	384 "	.30
<i>Abridge</i>	3065	21	3/2 "	2 "	320 "	.28

Galvanized Arc Lamp Cord.



With Hemp Center.

		No.	inch.	Per ft.
<i>Somniferous</i>	25075	No.	1 1/2 inch.	.03 1/2
<i>Knock</i>	19760	No. 26,	1/4 inch.	.02 1/2
<i>Knocked</i>	19761	" 27,	3/8 "	.02 1/2
<i>Knocker</i>	19762	" 27 1/2,	1/2 "	.01 1/2
<i>Knocking</i>	19763	" 28,	5/8 "	.01 1/2
<i>Knoll</i>	19764	" 29,	1 1/8 "	.01

Samson Cordage.

			Per lb
<i>Larcenating</i>	2695	Cotton, 3/8 inch diameter.	.75
<i>Lordliness</i>	2696	" 3/8 "	.75
<i>Lordly</i>	2697	Linen 3/8 "	1.20
<i>Lordskip</i>	2698	" 3/8 "	1.20

Electric Light Elevator Cable.

		Per ft.
<i>Clarify</i>	2097 Flexible, two conductors, No. 10.....	.30



Flexible Incandescent Lamp Cord.

Vulcanite.

Silk Covered.

Code Word.	List No.	Gauge.	Conductor.	List Price. Per Yard.
<i>Solitude</i>	25025	No. 22, B. & S.	10 x 30 Wires.	\$0.12
<i>Sollar</i>	25026	" 20, "	14 x 30 "	.12
<i>Solo</i>	25027	" 18, "	16 x 30 "	.16
<i>Solstice</i>	25028	" 16, "	25 x 30 "	.19
<i>Solstitial</i>	25029	" 14, "	40 x 30 "	.29
<i>Solubility</i>	25030	" 12, "	60 x 30 "	.40
<i>Soluble</i>	25031	" 10, "	118 x 30 "	.50

Cotton or Worsted.

<i>Solubleness</i>	25032	No. 22, B. & S.	10 x 30 Wires.	.07
<i>Solus</i>	25033	" 20, "	14 x 30 "	.07
<i>Solute</i>	25034	" 18, "	16 x 30 "	.09
<i>Solution</i>	25035	" 16, "	25 x 30 "	.12
<i>Solutive</i>	25036	" 14, "	40 x 30 "	.21
<i>Solvability</i>	25037	" 12, "	60 x 30 "	.32
<i>Solveable</i>	25038	" 10, "	118 x 30 "	.42

Unless otherwise specified, we furnish on orders green and gold.

Moulded.

Silk Covered.

<i>Solvableness</i>	25039	No. 22, B. & S.	10 x 30 Wires.	.12
<i>Solve</i>	25040	" 20, "	14 x 30 "	.12
<i>Solvency</i>	25041	" 18, "	16 x 30 "	.16
<i>Solvent</i>	25042	" 16, "	25 x 30 "	.19
<i>Solver</i>	25043	" 14, "	40 x 30 "	.29
<i>Somative</i>	25044	" 12, "	60 x 30 "	.40
<i>Somatical</i>	25045	" 10, "	118 x 30 "	.50

Cotton or Worsted.

<i>Somatics</i>	25046	No. 22, B. & S.	10 x 30 Wires.	.07
<i>Somatist</i>	25047	" 20, "	14 x 30 "	.07
<i>Somatology</i>	25048	" 18, "	16 x 30 "	.09
<i>Somatotomy</i>	25049	" 16, "	25 x 30 "	.12
<i>Somber</i>	25050	" 14, "	40 x 30 "	.21
<i>Somberly</i>	25051	" 12, "	60 x 30 "	.32
<i>Somberness</i>	25052	" 10, "	118 x 30 "	.42

Unless otherwise specified, we furnish on orders green and gold.

Special Packing House Cord.

For use in all places where cord is exposed to action of steam and brine.

			Per Foot
<i>Acetate</i>	25605	No. 16 B. & S.	.12
<i>Acetate</i>	25606	No. 18 "	.09
<i>Acetate</i>	25607	No. 20 "	.08

Cotton Sleaving.

			Price Per 100 Yards.
<i>Sombrero</i>	25053	No. 1, for No. 16 B. & S. Bare Copper Wire	.90
<i>Sombrous</i>	25054	" 2, " 11 "	.90
<i>Sombrously</i>	25055	" 3, " 5 "	1.20
<i>Somedial</i>	25056	" 4, " 4 "	1.50
<i>Someschat</i>	25057	" 5, " 3 "	2.40
<i>Sommiel</i>	25058	" 6, " 1 "	3.00
<i>Somnambula</i>	25059	" 7, " 0 "	4.00

Braided Office Wire.



		Approximate Weight.	
		Ft. to lb.	Ft. to lb.
No. 4.....	8	No. 16.....	95
" 6.....	12	" 17.....	120
" 8.....	20	" 18.....	135
" 12.....	40	" 19.....	145
" 13.....	45	" 20.....	155
" 14.....	60		
Code Word.	List No.	List Price.	
<i>Pacific</i>	15800	No. 12, per pound.....	\$.40
<i>Paducah</i>	15801	" 14, ".....	.42
<i>Paige</i>	15802	" 16, ".....	.44
<i>Paisley</i>	15804	" 18, ".....	.46
<i>Pajaro</i>	15805	" 20, ".....	.48

Weatherproof Office Wire.

<i>Palistine</i>	15810	No. 14, per pound.....	.46
<i>Palisade</i>	15811	" 16, ".....	.48
<i>Palmer</i>	15812	" 18, ".....	.50
<i>Palmyra</i>	15813	" 20, ".....	.52

Office Cables.

From 10 to 100 conductors, made of any size to No. 20 B. & S. gauge copper wire, covered with cotton, compactly cabled together, and braided in any color or combination of colors.

Paraffine finish, per pound.....	.50
Paint finish, per pound.....	.50

Finer conductors subject to special prices.

Annunciator Wire.

Double-Wound.



		Approximate Weight.	
		Ft. to lb.	Ft. to lb.
No. 12.....	45	No. 18.....	160
" 14.....	67	" 19.....	200
" 16.....	103	" 20.....	235
<i>Palo</i>	15820	No. 14, per pound.....	.36
<i>Pana</i>	15821	" 16, ".....	.38
<i>Panana</i>	15822	" 18, ".....	.40
<i>Panora</i>	15823	" 19, ".....	.42
<i>Paolo</i>	15824	" 20, ".....	.44
<i>Paradise</i>	15825	" 22, ".....	.46

Double Conductor Annunciator Wire.

<i>Paragon</i>	15830	No. 16, per pound.....	.42
<i>Parham</i>	15831	" 18, ".....	.44

Gas Fixture Wire.

For Lighting Gas by Electricity.

White, Yellow or Brown.

<i>Paris</i>	15835	No. 22. Triple cotton covered, per pound	.90
<i>Parkdale</i>	15836	" 24. " " " " "	1.00
<i>Parker</i>	15837	" 24. Five " " " "	1.50
<i>Parna</i>	15838	" 26. Triple " " " "	1.35
<i>Parnell</i>	15840	No. 22. Triple covered, silk outside, per lb.	2.00
<i>Parsons</i>	15841	" 24. " " " " "	2.50
<i>Pasco</i>	15842	" 24. Five " " " "	3.00
<i>Passaic</i>	15843	" 26. Triple " " " "	2.75

In ordering specify color wanted,

Lead Covered Wire.

Code wor.l.	List No.	Single Conductor.	List Price.
<i>Patterson</i>	15845	No. 14, B. & S. gauge, per foot.....	.07
<i>Patoka</i>	15846	" 16, " " " " .....	.05½
<i>Paton</i>	15847	" 18, " " " " .....	.04½

Double Conductor.

<i>Plattville</i>	15848	No. 14, B. & S. gauge, per foot.....	.14
<i>Pauline</i>	15849	" 16, " " " " .....	.11
<i>Pavillion</i>	15850	" 18, " " " " .....	.09

Three Conductor.

<i>Pawnee</i>	15851	No. 14, B. & S. gauge, per foot.....	.21
<i>Pawtucket</i>	15852	" 16, " " " " .....	.16½
<i>Paxton</i>	15853	" 18, " " " " .....	.13½

Platinum Wire.


<i>Payne</i>	15860	No. 12, per inch.....	1.00
<i>Payson</i>	15861	" 14, " .....	.75
<i>Peabody</i>	15862	" 16, " .....	.60
<i>Pike</i>	15863	" 18, " .....	.40
<i>Pilot</i>	15864	" 20, " .....	.30
<i>Pinkard</i>	15865	" 22, " .....	.20
<i>Pine</i>	15866	" 24, " .....	.15
<i>Pioneer</i>	15867	" 26, per foot.....	.85
<i>Piqua</i>	15868	" 28, " .....	.70
<i>Pittsfield</i>	15869	" 30, " .....	.50
<i>Plainfield</i>	15870	" 32, " .....	.35
<i>Plainville</i>	15871	" 34, " .....	.25
<i>Plano</i>	15872	" 36, " .....	.20

Approximate weight of platinum wire per foot.

No. 12.....	310.7	grains
" 14	195.4	"
" 16	122.8	"
" 18	77.3	"
" 20	48.6	"
" 22	30.6	"
" 24	19.2	"
" 26	12.1	"
" 28	7.60	"
" 30	4.79	"
" 32	3.01	"
" 34	1.89	"
" 36	1.19	"


Pliable Cord.

Bare Tinsel Cord.

	Code Word.	List No.	List Price. Per Yard.
	<i>Plover</i>	15875	Gold, small..... \$.06
	<i>Plymouth</i>	15876	Gold, large..... .08


Covered Tinsel Cord.

Single Conductor.

	<i>Pocahontas</i>	15877	Silk covered, gold, No. 15875..... .10
	<i>Polk</i>	15878	Worsted " " " "..... .08
	<i>Pomeroy</i>	15879	Linen " " " "..... .10
	<i>Pomona</i>	15880	Worsted " silver..... .12

Double Conductor.

For Pear-shaped Push.

	<i>Ponquet</i>	15881	Silk covered, No. 15875..... .21
	<i>Poncea</i>	15882	Worsted " " "..... .15

For Floor Push.

	<i>Pontiac</i>	15883	Silk covered, No. 15876..... .24
	<i>Poplar</i>	15884	Worsted " " "..... .18

For Loops, Extra Heavy.

	<i>Portage</i>	15885	Silk covered..... .36
	<i>Possey</i>	15886	Linen "..... .27


Special.

	<i>Potosi</i>	15887	Several strands of linen thread covered with bare tinsel wire; second covering of spiral iron wire covered with linen..... .12
--	---------------	-------	--


Copper Conducting Cords.

Single Conductor.

Composed of 25 wires No. 32, equal to No. 18 B. & S. gauge.

	<i>Potsdam</i>	15890	Silk covered..... .12
	<i>Powell</i>	15891	Worsted "..... .10

Composed of 40 wires No. 31, equal to No. 16 B. & S. gauge.

	<i>Pratt</i>	15892	Silk covered..... .15
	<i>Preble</i>	15893	Worsted "..... .12

Composed of 40 wires No. 30, equal to No. 14 B. & S. gauge.

	<i>Prentice</i>	15895	Silk covered..... .18
	<i>Prescott</i>	15896	Worsted "..... .15

Composed of 51 wires No. 29, equal to No. 12 B. & S. gauge.

	<i>Pritchards</i>	15894	Silk covered..... .21
	<i>Prospect</i>	15897	Worsted "..... .18

Double Conductor.

Each conductor same capacity as No. 14.

	<i>Provo</i>	15898	Silk covered..... .45
	<i>Pueblo</i>	15899	Worsted "..... .36

APPENDIX.

Richmond Plug Cut-Out.

Panel Board.

Patented Dec. 21, 1897.

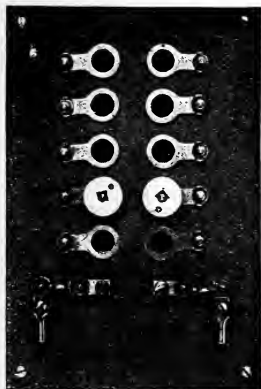
We illustrate a Panel Board having the branch circuits protected by Fuse Plugs.

These Boards are especially designed for Cut-Out Cabinets and can be made with any number of circuits, for use on the 2-wire or 3-wire systems.

The sockets for the plugs are formed in the slate base and the plugs screw into the bus-bars in the back.

The Fuse Plugs are made of porcelain, in one piece, and are intended to be re-fused. New Fuses can be put in without the use of solder.

The Fuse, being entirely enclosed in the socket, cannot blow out through the front when melted.



Code Word.	List No.	List Price, Each.
<i>Aerod</i>	25608 4 Circuit, without Switches.....	\$ 8.00
<i>Aerodale</i>	25609 6 " " "	10.00
<i>Aerid</i>	25610 8 " " "	12.50
<i>Aeridity</i>	25611 10 " " "	14.00
<i>Aeridness</i>	25612 12 " " "	15.50
<i>Aerid</i>	25613 4 " with Switches.....	12.40
<i>Aeridini</i>	25614 6 " " "	16.50
<i>Aeridinous</i>	25615 8 " " "	21.00
<i>Aeridony</i>	25616 10- " " "	23.50
<i>Aeridy</i>	25617 12 " " "	27.00

Prices on other sizes quoted on application.



No. 25618.

Fuse Plugs.

For use with Richmond Panel Boards.

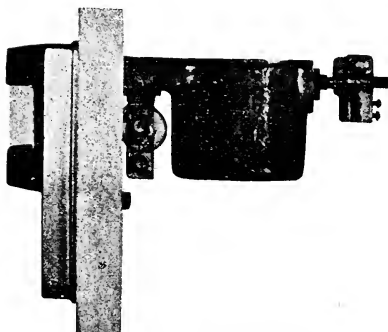
<i>Aerida</i>	25618 3 Ampere capacity .....	.15
<i>Aeridan</i>	25619 6 " " .....	.15
<i>Aeridical</i>	25620 9 " " .....	.15

Fuses.

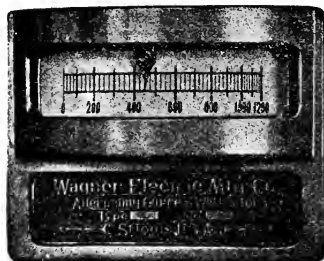
<i>Aerity</i>	25621 3 Ampere capacity .....	.05
<i>Aerobut</i>	25622 6 " " .....	.05
<i>Aerobatic</i>	25623 9 " " .....	.05



Front View of Wagner Co.'s Ammeter.



Side View of Wagner Co.'s Ammeter.



The Wagner Co.'s Wattmeter.

Wagner Electric Mfg. Co.'s Dead-Beat Illuminated-Dial Switchboard Instruments.

This line of instruments embodies many novel features. The instrument cases extend through the board, and the scales are illuminated by two 10 candle power lamps which stand sufficiently far back to also illuminate the rear of the switchboard. The movements are floated in a light colorless oil for the purpose of securing perfectly dead-beat action. The cases are highly japanned in black, while the front covers are of polished brass. The instruments are extremely sensitive, yet absolutely devoid of continuous oscillations which make it difficult to get an accurate reading on most alternating current instruments. The line includes ammeters, voltmeters and wattmeters for alternating current, and these will shortly be followed by a corresponding line for direct currents. Ammeters up to 100 amperes capacity take the entire current, above that amount a series transformer is provided. Prices below include this series transformer. Voltmeters are wound for the voltage indicated. Wattmeter pressure coils are wound for 100 volts. Series transformers are provided for series coils of all wattmeters when the series current is over five amperes.

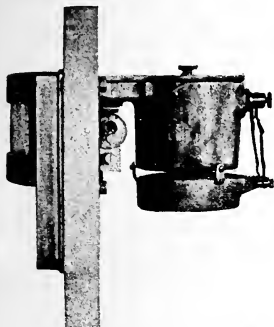
Ammeters.

Including Series Transformer.

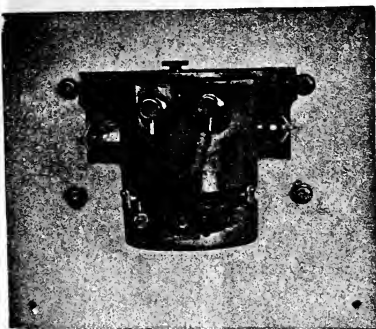
Code Word.	List No.		List Price.
<i>Aeruchord</i>	25624	Scale, 0 to 10 amperes	\$45.00
<i>Aeruchordus</i>	25625	0 to 15 "	45.00
<i>Aerogon</i>	25626	0 to 25 "	45.00
<i>Aeroleius</i>	25627	0 to 50 "	45.00
<i>Aeropolis</i>	25628	0 to 75 "	45.00
<i>Aerospire</i>	25629	0 to 100 "	55.00
<i>Aerospired</i>	25630	0 to 150 "	55.00
<i>Aeross</i>	25631	0 to 200 "	60.00
<i>Aeroter</i>	25632	0 to 250 "	60.00
<i>Aeroterial</i>	25633	0 to 300 "	65.00
<i>Aerotie</i>	25634	0 to 400 "	70.00
<i>Art</i>	25635	0 to 500 "	75.00
<i>Action</i>	25636	0 to 600 "	75.00
<i>Actin</i>	25637	0 to 700 "	75.00
<i>Actinie</i>	25638	0 to 800 "	75.00
<i>Actiniform</i>	25639	0 to 900 "	75.00
<i>Actinoid</i>	25640	0 to 1000 "	80.00
<i>Actinolite</i>	25641	0 to 1200 "	80.00
<i>Actinolite</i>	25642	0 to 1500 "	85.00
<i>Action</i>	25643	0 to 2000 "	90.00

Voltmeters.

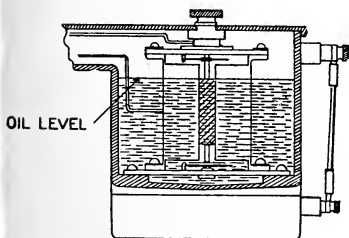
<i>Actionable</i>	25644	Scale, 0 to 60 volts	50.00
<i>Actionably</i>	25645	0 to 120 "	55.00
<i>Actionary</i>	25646	0 to 150 "	60.00



Side View of Wagner Co.'s Voltmeter.



Rear View of Wagner Co.'s Voltmeter.



Section Showing Oil Level.

Wagner Electric Mfg. Co.'s Instruments.

—(Continued.)

Wattmeters.

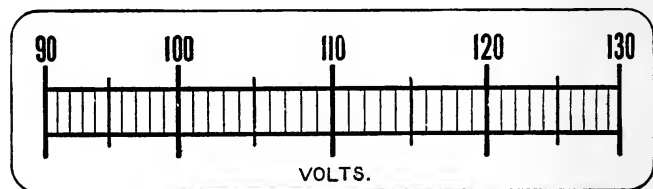
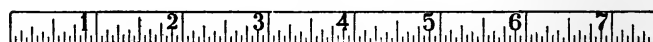
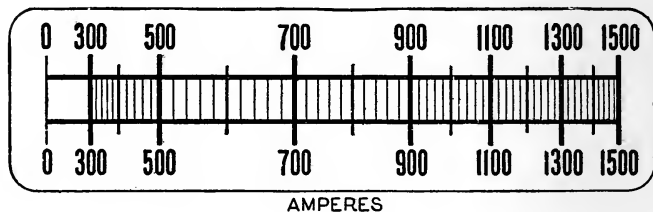
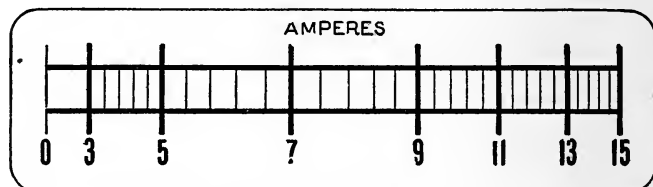
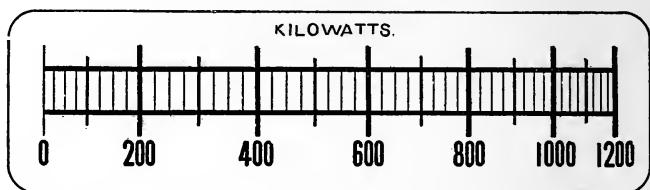
Code Word.	List No	Scale, 0 to	100 watts.....	List Price
<i>Actionist</i>	25647	0 to	100 watts.....	\$65.00
<i>Actionsermo</i>	25648	0 to	200 "	65.00
<i>Actitation</i>	25649	0 to	300 "	65.00
<i>Activate</i>	25650	0 to	400 "	65.00
<i>Active</i>	25651	0 to	500 "	65.00
<i>Actively</i>	25652	0 to	750 "	65.00
<i>Activeness</i>	25653	0 to	1000 "	65.00
<i>Activity</i>	25654	0 to	2 kilowatts.....	65.00
<i>Actless</i>	25655	0 to	3 "	70.00
<i>Actor</i>	25656	0 to	5 "	70.00
<i>Actual</i>	25657	0 to	10 "	75.00
<i>Actuality</i>	25658	0 to	25 "	75.00
<i>Actualization</i>	25659	0 to	50 "	95.00
<i>Actualize</i>	25660	0 to	75 "	95.00
<i>Actually</i>	25661	0 to	100 "	100.00
<i>Actualness</i>	25662	0 to	200 "	110.00
<i>Actuation</i>	25663	0 to	300 "	110.00
<i>Actuator</i>	25664	0 to	500 "	120.00
<i>Actuase</i>	25665	0 to	750 "	125.00
<i>Actuosity</i>	25666	0 to	1000 "	130.00
<i>Acture</i>	25667	0 to	1200 "	135.00
<i>Acution</i>	25668	0 to	1500 "	140.00
<i>Acutitutor</i>	25669	0 to	2000 "	150.00

Pressure Reducing Transformers.

Where pressure reducing transformers for Wagner Co.'s instruments are desired, these will be furnished at following prices:

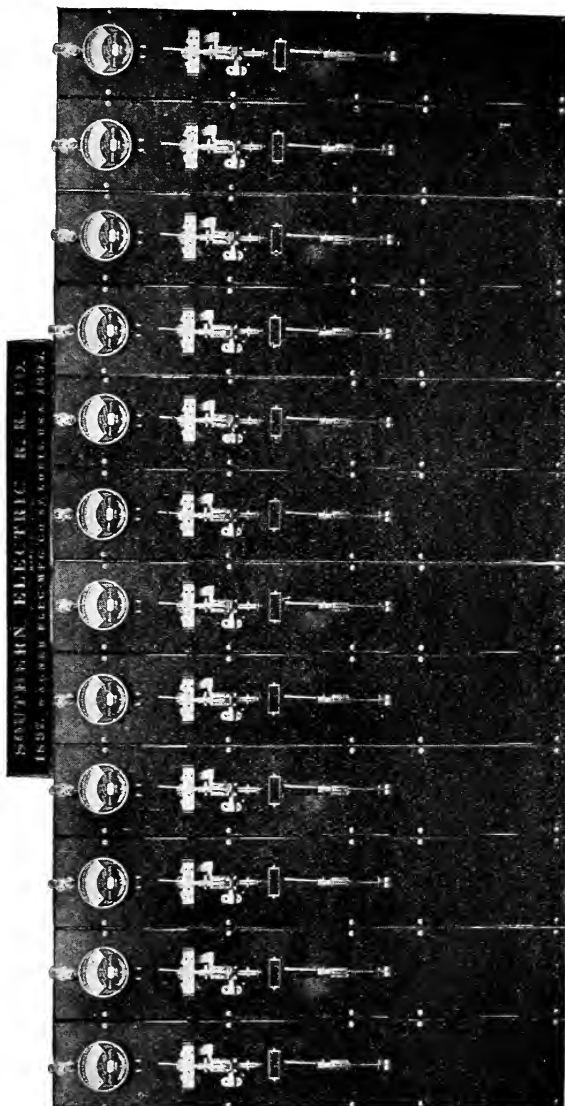
<i>Acuteness</i>	25670	1000 to 100 volts.....	\$20.00
<i>Adage</i>	25671	2000 to 100 "	30.00
<i>Adapter</i>	25672	3000 to 100 "	30.00
<i>Adaptive</i>	25673	5000 to 100 "	42.00

Damping oil, lamps and template for mounting are furnished with each instrument. The lamps are 75 volts, operating two in series on 110 volts.



FAC-SIMILE SCALES OF WAGNER CO.'S

DEAD-BEAT ILLUMINATED-DIAL INSTRUMENTS.



WAGNER CO.'S STANDARD STREET RAILWAY FEEDER BOARD.

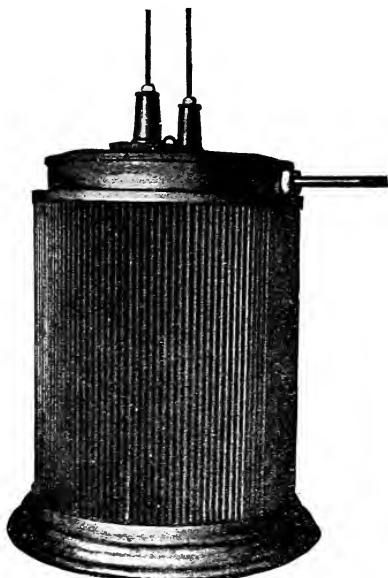


Figure 1.



Figure 2.

Wagner Electric Mfg. Co.'s Transformers for Power Transmission.

Transformers for power transmission lines, are of four different forms, namely:

First. Self-cooling dry transformers, in which the heat losses are dissipated by the natural circulation of the surrounding atmosphere around and through the coils. This form is to be recommended only in small substation equipments.

Second. Self-cooling oil filled transformers, in which the oil serves the functions of insulating and cooling medium, and also drives out all air from the windings. This form is most admirable, and is to be recommended over the self-cooling dry type.

Third. Air blast dry transformers, in which the losses are dissipated by means of a cooling blast of air, which is derived from auxiliary ventilating fan outfit. This form is frequently made use of in large installations.

Fourth. Water cooled, oil filled transformers, in which the self-cooling property of the transformer by reason of being oil filled is supplemented on heavy loads by a water cooling device.

Figure 1 illustrates the latest form of the Wagner self-cooling oil filled type. The case is built of corrugated sheet. The low voltage leads are brought out at the side, while the high pressure ends come out through the cover.

Figure 2 illustrates the water cooled, oil filled type. In small installations, where the air circulation is good, the water device is not required. But where many transformers are crowded into a small substation, the water coil is a most effective and desirable adjunct.

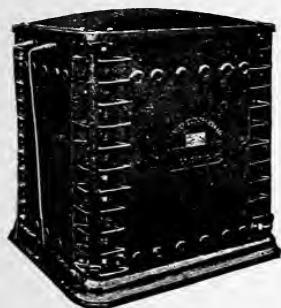


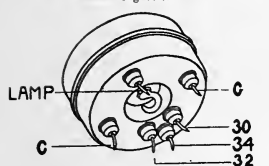
Figure 3.

Transformers for Power Transmission. —(Continued.)

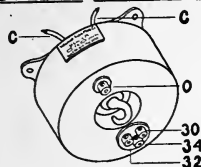
Figure 3 illustrates the water jacketed type, in which the case is completely channeled by water passages. With this, as with the endless coil type of water cooling, (Figure 2) a low pressure head is used. Ten to fifteen pounds pressure is amply sufficient for all requirements.

High tension transformers for any voltage up to 50,000, and for any capacity up to 1000 K. W. will be built to order.

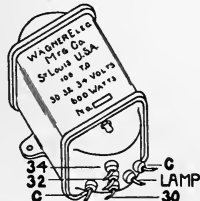
Prices and information in detail given on application.



CIRCULAR OUTDOOR TYPE



ORNAMENTAL TYPE



RECTANGULAR OUTDOOR TYPE

Wagner Electric Mfg. Co.'s 600 Watt Arc Light Transformers.

Circular Out Door Type.

This type has a hook for suspension of the transformer on the upper side, and a corresponding hook for suspension of the lamp on the lower side, the latter appearing in the cut. The ratio of transformation is 100 volts to 30, 32 or 34 volts. The line is connected to the terminals marked by the letters C C. Cast on the box. One lamp circuit wire is connected to terminal marked "lamp," and the other to either of those marked 30, 32 and 34 as selected. This type is weatherproof. The case is of cast iron, and is finished in black japan.

Ornamental Type.

This type is designed to be screwed upon the ceiling where used, and has a hook below from which the lamp is carried. The finish is in highly polished brass. The circuit leads marked C and C in the diagram, come out above. The lamp connections are made to binding posts below, one side of lamp circuit being connected to O and the other to either of those marked 30, 32 and 34, depending on the voltage required at the lamp. This is strictly an indoor type.

Rectangular Out Door Type.

The connections with this type correspond exactly to the circular outdoor type. The case is cast-iron with black japan finish.

Code Word.	List No.	List Price.
Adanervul	25686 Circular Outdoor Type	\$15.00
Adaniet	25687 Ornamental Type	15.00
Adart	25688 Rectangular Outdoor Type	13.00

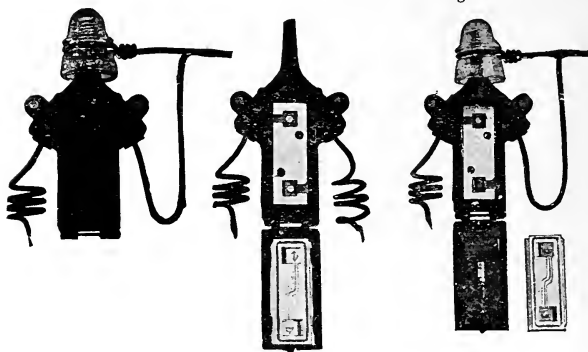
Wagner Co.'s High Potential Fuse Cut-Out Boxes.

We illustrate two distinct types of independent single-pole cut-out boxes, for use on the primaries of transformers or as junction boxes on primary circuits. Type XL, operates as follows: On opening the box, the lid comes forward and down, the top porcelain block containing the fuse drawing out with it. In this way the opening of the box breaks

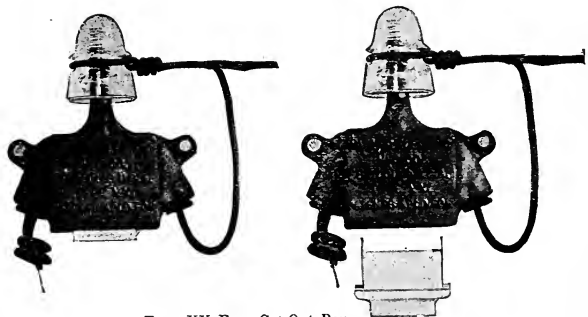
the circuit. The porcelain block containing the fuse is still further removable by simply drawing out from the end of the lid, thus entirely detaching it from the box. A spring between the block and lid, prevents the block sliding out by its own weight.

The porcelain parts fit closely together, the spring in the lid serving also to press the upper half down on the lower half. A rubber gasket completes the perfection of the joint. This cut-out is waterproof, affords perfectly safe replacing of fuses on live circuits and assures reliable blowing of fuses. The insulator pin surmounting it is also a great advantage, saving an insulator fixture for every box installed. This cut-out is recommended for all transformer and junction box service within the following limits:

On 1600 Volt Circuits.....	30 Amperes
" 2000 " "	15 "
" 3000 " "	10 "
" 4000 " "	8 "
" 5000 " "	6 "



Type XL Fuse Cut-Out Box.



Type XX Fuse Cut-Out Box.

Type XX is peculiarly adapted for transformer work, and is recommended for this service up to a maximum capacity of 5 kilowatts. A removable porcelain plug carries the fuse, and is held securely in position by the tension of the contact clips through which the current passes, reinforced by spring-clips. The fuse is enclosed in an airtight chamber, and will blow on a dead transformer short circuit with absolutely no noise or other disturbance. The cut-out also carries the insulator pin.

Code Word. List No.

<i>Adoption</i>	25674	Type XL each.....	net \$3.00
<i>Adaptly</i>	25675	Extra Porcelain Block (each half).....	net .75
<i>Add</i>	25676	Type XX each.....	net 3.00
<i>Addble</i>	25677	Extra Porcelain Plugs.....	net .75

List Price.

Wagner Electric Co.'s Single Phase Alternating Power Motors.

The Wagner Co. single phase power motors are designed to operate on circuits of either 60 or 133 cycles. They are induction motors in principle, operating in the following manner: For starting, the armature and field windings are connected in series and the motor runs up to speed exactly as would a direct current series motor. When the running speed has been attained, the armature winding is disconnected from the field and completely short-circuited on itself by means of a ring which slides over the commutator. The motor then runs at a speed slightly below synchronous speed, and carries its full rated load with a drop in speed not exceeding two per cent. An overload of from 25 to 50 per cent. will be taken care of without trouble. The heating of the various parts of the machine is practically negligible after continuous duty at full load. The mechanical construction is in all respects first class. The bearings are of the self-aligning, self-oiling variety, and, being made of phosphor bronze, will last indefinitely.

In the smaller sizes the starting operation is performed by hand, a convenient starting switch being mounted directly on the motor frame. In the larger sizes this operation is performed automatically, the only requirement from the attendant being the closing of the main switch.

This main switch may be located at any point convenient to the attendant, in the same room with the motor or elsewhere as desired.

Another admirable characteristic is that these motors may be connected upon the same secondary circuits as are incandescent and arc lamps, thus avoiding the necessity for additional transformers for motor service. There are no reactive or disturbing effects on the lights when thus operated in conjunction with motors, as is so objectionably the case with synchronous motors. Furthermore a momentary disturbance of the current supply, arising from the throwing over of the circuit at the central station from one machine to another, does not affect the running of the motor, unless the motor load is of such character as to ordinarily stop it very quickly when current is cut off.

These motors have practically the same efficiency as the best shunt wound direct current motors, and the fact that there are no brushes running constantly on the commutator gives rise to a noiselessness of operation.

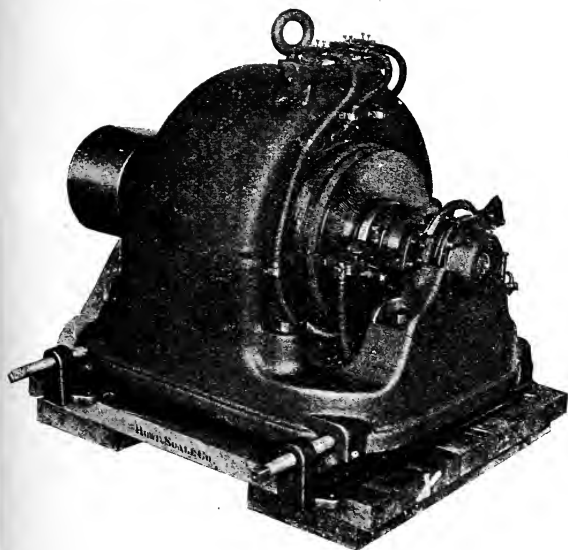
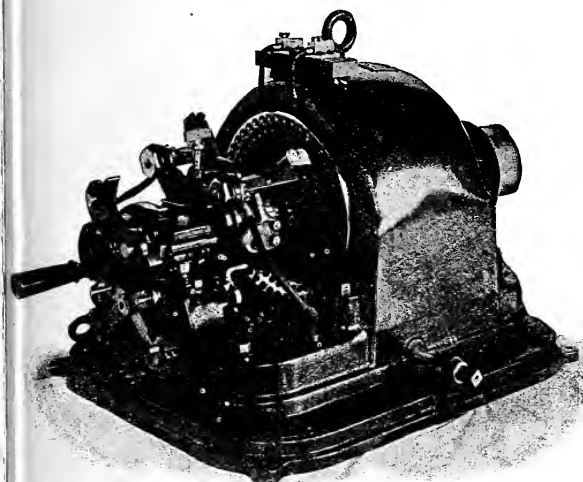
Sizes are now ready for the market as follows:

60 Cycles.

Code Word.	List No.	Price
Addice	25678 2 H. P.	\$370.00
Addoom	25679 5 "	500.00
Actupler	25680 10 "	950.00
Actuiner	25681 15 "	1250.00

133 Cycles.

Actegor	25682 1 ½ H. P.	\$370.00
Actopun	25683 4 "	500.00
Actupin	25684 7 ½ "	950.00
Actuze	25685 10 "	1250.00





72-inch Direct Connected Unit.

Wagner Electric Mfg. Co.'s Direct-Coupled Ventilating Outfits.

These outfits are built for operation on 110, 220 or 500 volt direct current systems. The motors are multi-polars, with self-aligning, self-oiling bearings. The outfits are noiseless and deliver a maximum volume of air for a minimum consumption of driving energy. They are furnished for erection in two ways, viz.: supported on a substantial cast iron base or carried by means of flanges on the outside of the sheet steel casing.

Prompt delivery can be made on the sizes listed below

Diameter of Fan in Inches.	No. of Speeds.	Max. capacity in cubic feet per minute	Max. revolutions per minute	Price
24	12	9,000	1,500	\$ 350.
30	12	12,000	1,200	500
34	12	15,000	1,000	600
35	12	18,000	950	650.
42	12	25,000	900	800.
48	12	30,000	800	950.
54	12	40,000	750	1,100.
60	12	50,000	500	1,200.
72	12	75,000	400	1,500.

Write for Discounts.

POWER TABLE.

SIZE OF FAN		24	30	34	36	42	48	54	60	72	
Air Velocity Ft. Per Minute.	600	Cubic feet per M.	1884	2940	3780	4236	5772	7536	9540	11778	16962
		R. P. M.	310	247	220	206	177	155	137	124	103
		H. P. . . . .	.096	.103	.132	.148	.208	.271	.353	.435	.636
	900	Cubic feet per M.	2826	4410	5670	6354	8658	11304	14310	17667	25473
		R. P. M.	164	372	332	310	265	232	206	185	155
		H. P. . . . .	.139	.258	.360	.413	.588	.792	1.000	1.253	1.870
	1200	Cubic feet per M.	3768	5880	7560	8472	11544	15072	19080	23556	33924
		R. P. M.	618	495	441	412	353	310	275	247	206
		H. P. . . . .	.256	.477	.650	.754	1.083	1.483	1.908	2.400	3.590
	1500	Cubic feet per M.	4710	7350	9450	10590	14430	18840	23850	29445	42405
		R. P. M.	773	620	552	515	441	386	343	308	258
		H. P. . . . .	.400	.735	1.012	1.165	1.700	2.350	3.250	4.820	7.780
	2000	Cubic feet per M.	6250	9800	12600	14120	19240	25120	31800	39260	56540
		R. P. M.	1030	822	734	685	586	514	454	410	342
		H. P. . . . .	.805	1.420	1.954	2.260	3.310	4.570	5.980	7.650	11.58

TABLES.

In all the tables on determining the size of wire, the distance is the number of feet between the source of supply and the lights, and not the length of the wire.

AMPS.

AMPERES PER LAMP.

VOLTS	52	75	110	220
10 C. P.	.6	.43	.32	.22
16 "	1.0	.68	.5	.33
20 "	1.25	.86	.64	.40
25 "	1.54	1.10	.80	.50
32 "	2.00	1.36	1.00	.65
50 "	3.10	2.20	1.60	1.02
100 "	6.20	4.30	3.20	2.05
150 "	9.30	6.40	4.75	3.07

WIRING TABLE FOR TWO PER CENT LOSS ON 50 VOLTS (TABLE FOR 1 VOLT LOSS).

Distance in feet to center of distribution. (Wire sizes are indicated in B. and S. Gauge)																			
No. of Amperes.	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	250	
1
1.5
2
3
4
5
6
7
8
9
10
12
14
16
18
20
25
30
35
40
45
50
55
60
65
70
75
80
90
100

WIRING TABLE 2 PER CENT LOSS 110 VOLTS.

No. of Amperes.	Distance in feet to center of distribution. (Wire sizes in B. and S. Gauge.)															
	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240	280
1															16	15
1.5												16	15	15	14	14
2										16	15	15	14	14	13	12
3											16	15	14	13	12	11
4												16	15	14	13	12
5													16	15	14	13
6														16	15	14
7															16	15
8																16
9																
10																
12																
14																
16																
18																
20																
25																
30																
35																
40																
45																
50																
60																
70																
80																
90																
100																
120																

WIRING TABLE 2 PER CENT LOSS 220 VOLTS.

Number of Amperes	Distance in feet to center of distribution. (Wire sizes in B. & S. Gauge)															
	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240	280
1																16
1.5																16
2															16	15
3															15	14
4															14	13
5															13	12
6															12	11
7															11	10
8															10	9
9															9	8
10															8	7
12															7	6
14															6	5
16															5	4
18															4	3
20															3	2
25															2	1
30															1	0
35															0	0
40															0	0
45															0	0
50															0	0
60															0	0
70															0	0
80															0	0
90															0	0
100															0	0
120															0	0

WIRING TABLE FOR 100 VOLTS.

The figures at the top of each column indicate current in amperes.
Distance given below in feet to center of distribution.

Per cent. loss at 100 volts.																																			
Wire sizes given in B. & S. gauge.																																			
2.	2.5	3	3.5	4.	5.	6.	6.3	8.	10.																										
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	37,800	48,900	32,600	24,450	16,300	12,225	9,780	8,160	6,985	6,112	5,430	4,890	3,912	3,260	2,794	2,445	1,956	1,630	1,197	1,222	970	80	90	100	1,086	978
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	37,500	38,750	25,850	19,400	12,915	9,700	7,750	6,457	5,583	4,850	4,305	3,875	3,100	2,583	2,214	1,940	1,550	1,140	1,197	970	80	90	100	1,086	978	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	61,600	30,200	50,580	15,400	10,265	7,700	6,160	5,132	4,400	3,850	3,420	3,080	2,464	2,051	1,760	1,540	1,282	1,197	970	80	90	100	684	616		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	48,900	24,450	16,300	12,225	8,160	7,700	6,160	5,132	4,400	3,850	3,420	3,080	2,464	2,051	1,760	1,540	1,282	1,197	970	80	90	100	684	616		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	48,900	24,450	16,300	12,225	8,160	7,700	6,160	5,132	4,400	3,850	3,420	3,080	2,464	2,051	1,760	1,540	1,282	1,197	970	80	90	100	684	616		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	38,900	19,450	12,960	9,720	6,480	4,860	3,980	3,240	2,778	2,420	2,160	1,945	1,566	1,380	1,197	1,028	778	648	555	486	343	309	300	272	245	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	30,900	15,450	10,300	7,720	5,150	3,660	3,050	2,575	2,207	1,930	1,645	1,386	1,030	883	778	648	555	486	343	309	300	272	245			
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	24,500	12,250	8,160	5,150	3,420	2,450	1,983	1,650	1,410	1,260	1,100	962	855	770	646	554	486	358	323	277	242	210	184	154		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	19,400	9,700	6,460	4,860	3,230	2,450	1,983	1,650	1,410	1,260	1,100	962	855	770	646	554	486	358	323	277	242	210	184	154		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	15,400	7,700	5,130	3,860	2,565	1,925	1,540	1,262	1,100	962	855	770	646	554	486	358	323	277	242	210	184	154	134	104	74	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	12,200	6,100	4,060	3,230	2,450	1,925	1,540	1,262	1,100	962	855	770	646	554	486	358	323	277	242	210	184	154	134	104	74	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	9,700	4,850	3,260	2,450	1,925	1,540	1,262	1,100	962	855	770	646	554	486	358	323	277	242	210	184	154	134	104	74		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	7,680	3,845	2,563	1,920	1,381	961	610	507	435	380	338	305	247	384	307	256	219	192	153	128	109	96	87	76	67	61
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	6,100	3,050	2,030	1,590	1,015	760	610	507	435	380	338	305	247	384	307	256	219	192	153	128	109	96	87	76	67	61
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	4,340	2,420	1,613	1,120	806	605	485	404	345	300	269	242	193	161	138	121	101	96	80	69	60	53	48	42	38	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	3,840	2,420	1,613	1,120	806	605	485	404	345	300	269	242	193	161	138	121	101	96	80	69	60	53	48	42	38	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	3,040	1,520	1,033	760	506	380	300	243	200	172	150	168	132	121	101	87	76	60	50	43	38	32	28	25	21	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	2,410	1,210	1,033	602	401	300	243	200	172	150	168	132	121	101	87	76	60	50	43	38	32	28	25	21		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1,920	960	640	440	320	240	192	160	137	120	105	96	76	64	54	48	38	30	25	21	18	15	13	10	8	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1,520	760	507	360	240	180	152	127	108	95	84	76	66	56	48	38	30	25	21	18	15	13	10	8		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1,210	605	403	302	201	151	121	100	86	75	67	60	50	43	34	30	25	21	18	15	13	10	8			
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	960	480	320	240	160	120	96	68	53	47	42	38	30	25	21	18	15	13	10	8	7	6	5	4		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	761	380	254	190	127	95	76	63	54	47	42	38	30	25	21	18	15	13	10	8	7	6	5	4		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	604	302	201	151	100	75	60	50	43	37	33	30	24	20	17	14	12	10	8	7	6	5	4	3		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	480	240	160	120	80	60	48	40	36	30	26	22	19	16	13	11	9	7	6	5	4	3	2	1		
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	380	196	127	95	63	47	38	32	28	23	20	17	14	11	9	7	6	5	4	3	2	1	0	0	0	
00000	0000	0000	0000	0000	0000	0000	0000	0000	0000	302	150	100	75	50	37	30	25	20	17	14	11	9	7	6	5	4	3	2	1	0	0	0	0	0	
																At 100 volts.																			
																I H. P. = 7.46 a.																			
																1 a. = 134 H. P.																			
																C.P.s																			
																10 .35																			
																16 .50																			
																25 .75																			
																50 1.5																			
																130 4.5																			

*From
Wiring Tables, How They are Made and How to Use Them.
Copyrighted, 1897.*

Compiled by THOS. G. GRIER.

WIRING TABLE FOR 50 VOLTS.

[illegible]

WIRING TABLE FOR 220 VOLTS.

[illegible]

Compiled by Thos. G. Grier from "Wiring Tables, How They are Made and How to Use Them." Copyrighted.

WIRING TABLE FOR 440 VOLTS.

[illegible]

The Metric System.

Metric Denominations and Equivalents in Denominations in use.

WEIGHTS.

Name.	No. Grams.	Weight of what quantity of water at max. density.
Millier or tonneau	= 1,000,000	= 1 cubic meter.
Quintal	= 100,000	= 1 hectoliter.
Myriagram	= 10,000	= 10 liters.
Kilogram or Kilo	= 1,000	= 1 liter.
Hectogram	= 100	= 1 deciliter.
Dekagram	= 10	= 10 cubic centimeters.
Gram	= 1	= 1 cubic centimeter.
Decigram	= .1	= .1 cubic centimeter.
Centigram	= .01	= 10 cubic millimeters.
Milligram	= .001	= 1 cubic millimeter.

Name.	No. Grams.	Avordupois Weight.
Millier or tonneau	= 1,000,000	= 2,204.6 pounds.
Quintal	= 100,000	= 220.46 pounds.
Myriagram	= 10,000	= 22.046 pounds.
Kilogram or Kilo	= 1,000	= 2.2046 pounds.
Hectogram	= 100	= 3.5274 ounces.
Dekagram	= 10	= 0.3527 ounce.
Gram	= 1	= 15.432 grains.
Decigram	= .1	= 1.5432 grains.
Centigram	= .01	= 0.1543 grain.
Milligram	= .001	= 0.0154 grain.

MEASURES OF LENGTH.

Myriameter	= 10,000 meters	= 6,2137 miles.
Kilometer	= 1,000 meters	= 0.62137 m. or 3,280 ft.
		10 in.
Hectometer	= 100 meters	= 328 feet and 1 inch.
Dekameter	= 10 meters	= 39.37 inches.
Meter	= 1 meter	= 39.37 inches.
Decimeter	= 1 of a meter	= 3.937 inches.
Centimeter	= .01 of a meter	= 0.3937 inch.
Millimeter	= .001 of a meter	= 0.0394 inch.

MEASURES OF SURFACE.

Hectare	= 10,000 square meters	= 2.471 acres.
Are	= 100 square meters	= 119.6 square yards.
Centare	= 1 square meter	= 1.550 square inches.

MEASURES OF CAPACITY.

Name.	No. Liters.	Cubic Measure.	Dry Measure.
Kiloliter	= 1,000	= 1 cu. meter	= 1.358 cubic yards.
Hectoliter	= 100	= 1 cu. meter	= 2 bush. 3.35 pks.
Decaliter	= 10	= 10 c. decimeter	= 9.08 quarts.
Liter	= 1	= 1 c. decimet.	= 0.908 quart.
Deciliter	= .1	= 1 c. decimet.	= 6.1022 cubic in.
Centiliter	= .01	= 10 c. centim.	= 0.6102 cubic in.
Milliliter	= .001	= 1 c. centim.	= 0.061 cubic in.

Name.	No. Liters.	Cubic Measure.	Wine Measure.
Kiloliter	= 1,000	= 1 cubic meter	= 264.17 galls.
Hectoliter	= 100	= 1 cubic meter	= 26.417 galls.
Decaliter	= 10	= 10 c. decimeters	= 2.6417 galls.
Liter	= 1	= 1 c. decimeter	= 1.0567 qts.
Deciliter	= .1	= 1 c. decimeter	= 0.845 gill.
Centiliter	= .01	= 10 c. centimet.	= 0.388 fluid oz.
Milliliter	= .001	= 1 c. centimet.	= 0.27 fluid oz.

Table of Decimal Equivalents

OF

8ths, 16ths, 32ds and 64ths of an Inch.

FOR USE IN CONNECTION WITH THE MICROMETER CALIPERS.

8ths.	9ths.	19ths.
1 = .125	1 = .28125	1 = .296875
2 = .250	2 = .5625	2 = .59375
3 = .375	3 = .84375	3 = .890625
4 = .500	4 = 1.125	4 = 1.19125
5 = .625	5 = 1.40625	5 = 1.486875
6 = .750	6 = 1.6875	6 = 1.7725
7 = .875	7 = 1.96875	7 = 2.054375
8 = 1.000	8 = 2.250	8 = 2.34375
9 = 1.125	9 = 2.53125	9 = 2.634375
10 = 1.250	10 = 2.8125	10 = 2.925000
11 = 1.375	11 = 3.09375	11 = 3.215625
12 = 1.500	12 = 3.375	12 = 3.506250
13 = 1.625	13 = 3.65625	13 = 3.796875
14 = 1.750	14 = 3.9375	14 = 4.087500
15 = 1.875	15 = 4.21875	15 = 4.378125
16 = 2.000	16 = 4.500	16 = 4.668750
17 = 2.125	17 = 4.78125	17 = 4.959375
18 = 2.250	18 = 5.0625	18 = 5.250000
19 = 2.375	19 = 5.34375	19 = 5.540625
20 = 2.500	20 = 5.625	20 = 5.831250
21 = 2.625	21 = 5.90625	21 = 6.121875
22 = 2.750	22 = 6.1875	22 = 6.412500
23 = 2.875	23 = 6.46875	23 = 6.703125
24 = 3.000	24 = 6.750	24 = 6.993750
25 = 3.125	25 = 7.03125	25 = 7.284375
26 = 3.250	26 = 7.3125	26 = 7.575000
27 = 3.375	27 = 7.59375	27 = 7.865625
28 = 3.500	28 = 7.875	28 = 8.156250
29 = 3.625	29 = 8.15625	29 = 8.446875
30 = 3.750	30 = 8.4375	30 = 8.737500
31 = 3.875	31 = 8.71875	31 = 9.028125
32 = 4.000	32 = 9.000	32 = 9.318750
33 = 4.125	33 = 9.28125	33 = 9.609375
34 = 4.250	34 = 9.5625	34 = 9.900000
35 = 4.375	35 = 9.84375	35 = 10.190625
36 = 4.500	36 = 10.125	36 = 10.481250
37 = 4.625	37 = 10.40625	37 = 10.771875
38 = 4.750	38 = 10.6875	38 = 11.062500
39 = 4.875	39 = 10.96875	39 = 11.353125
40 = 5.000	40 = 11.250	40 = 11.643750
41 = 5.125	41 = 11.53125	41 = 11.934375
42 = 5.250	42 = 11.8125	42 = 12.225000
43 = 5.375	43 = 12.09375	43 = 12.515625
44 = 5.500	44 = 12.375	44 = 12.806250
45 = 5.625	45 = 12.65625	45 = 13.096875
46 = 5.750	46 = 12.9375	46 = 13.387500
47 = 5.875	47 = 13.21875	47 = 13.678125
48 = 6.000	48 = 13.500	48 = 13.968750
49 = 6.125	49 = 13.78125	49 = 14.259375
50 = 6.250	50 = 14.0625	50 = 14.550000
51 = 6.375	51 = 14.34375	51 = 14.840625
52 = 6.500	52 = 14.625	52 = 15.131250
53 = 6.625	53 = 14.90625	53 = 15.421875
54 = 6.750	54 = 15.1875	54 = 15.712500
55 = 6.875	55 = 15.46875	55 = 16.003125
56 = 7.000	56 = 15.750	56 = 16.293750
57 = 7.125	57 = 16.03125	57 = 16.584375
58 = 7.250	58 = 16.3125	58 = 16.875000
59 = 7.375	59 = 16.59375	59 = 17.165625
60 = 7.500	60 = 16.875	60 = 17.456250
61 = 7.625	61 = 17.15625	61 = 17.746875
62 = 7.750	62 = 17.4375	62 = 18.037500
63 = 7.875	63 = 17.71875	63 = 18.328125
64 = 8.000	64 = 18.000	64 = 18.618750

WIRING TABLE FOR 500 VOLTS.

Per cent. loss at 500 volts Wire sizes given in B. & S. gauge.								The figures at the top of each column indicate currents in amperes. Distance given below in feet to center of distribution.										
2.	2.5	3.16	4.	6.	6.3	8.	10.	30	35	40	50	60	70	80	90	100		
.....	0000	16,300	13,970	12,225	9,780	8,150	6,985	6,112	5,430	4,890	
.....	0000	000	12,910	11,070	9,700	7,750	6,455	5,335	4,550	4,300	875
.....	0000	000	10,260	8,800	7,700	6,160	5,130	4,400	3,850	3,430	3,080
.....	0000	000	8,150	6,985	6,110	4,890	4,075	3,490	3,065	2,715	2,445
.....	0000	000	6,480	5,555	4,860	3,890	3,240	2,777	2,430	2,160	1,945
.....	0000	000	5,160	4,415	3,860	3,090	2,575	2,207	1,930	1,716	1,545
.....	0000	000	4,080	3,500	3,060	2,450	2,020	1,760	1,530	1,360	1,225
.....	0000	000	3,230	2,772	2,425	1,940	1,615	1,385	1,212	1,077	975
.....	0000	000	2,570	2,200	1,925	1,540	1,285	1,100	960	857	770
.....	0000	000	2,030	1,745	1,520	1,220	1,015	872	760	676	610
.....	0000	000	1,617	1,385	1,210	970	808	692	605	539	485
.....	0000	000	1,281	1,095	961	769	640	549	480	427	385
.....	0000	000	1,015	871	760	610	508	435	380	340	305
.....	0000	000	807	691	605	484	408	.....	.....	.....	.....
.....	0000	000	640	548	430	.....	.....	.....	.....	.....	.....
.....	0000	000	505	435	.....	.....	.....	.....	.....	.....	.....
.....	0000	000	401	345	.....	.....	.....	.....	.....	.....	.....
.....	0000	000	320	.....	.....	.....	.....	.....	.....	.....	.....
																	At 500 volts.	
																	1 H. P.=1.49 a.	
																	1 a.=.67 H. P.	

From Wiring Tables; How They are Made and How to Use Them. (Copyrighted.)

Compiled by Thos. G. Grier.

WIRING TABLE FOR 500 VOLTS

[illegible]

WIRING TABLE FOR PRIMARY CIRCUITS, 1,000 VOLTS.

Percent loss at 1,000 volts. Wire sizes given in B. & S. gauge.										The figures at the top of each column indicate primary currents in amperes. Distance given below in feet to center of distribution.																					
2.	2.5.	3.	4.	5.	6.	8.	10.																								
								1.	1.5	2.	3.	4.	5.	6.	8.	10.	12.	14.	16.	18.	20.	25.	30.	35.	40.	45.	50.				
0000								978,000	652,000	189,000	326,000	244,600	168,000	122,280	97,800	81,900	68,850	61,125	54,300	48,900	38,250	32,125									
0000								775,000	515,000	287,500	258,300	194,000	128,150	97,700	75,000	64,775	55,350	48,050	42,050	33,000	27,500	21,000									
0000								615,000	405,000	225,300	194,000	144,000	97,700	75,000	64,775	55,350	48,050	42,050	33,000	27,500	21,000										
0000								489,000	326,000	244,600	168,000	122,280	81,500	61,048	48,900	42,750	36,925	32,500	25,500	21,450	16,350										
0000								1,389,200	229,330	194,500	129,600	97,200	64,840	48,360	39,900	32,400	27,790	24,300	20,021	16,450	14,560										
0000								88,600	60,000	34,000	24,500	15,400	9,700	6,100	4,000	2,700	1,700	1,100	700	450	300										
0000	0"						2	3,345,000	165,320	122,500	66,500	61,300	40,830	30,600	24,000	19,750	17,000	15,150	14,550	12,360	10,650										
0000	0"						3	4,194,000	129,330	97,200	64,800	48,360	32,300	24,250	19,400	16,150	13,850	12,125	10,800	9,700	7,600										
0000	0"						4	5,154,000	102,620	77,000	51,300	38,500	25,650	19,250	14,500	12,925	11,000	9,625	8,550	7,700	6,160										
0000	0"						5	6,154,000	81,500	61,048	48,900	42,750	36,925	32,500	25,500	21,450	18,450	16,350	14,550	12,360	10,650										
0000	0"						6	7,977,000	61,663	48,580	32,300	24,250	16,170	12,100	9,700	8,085	6,925	6,050	5,400	4,750	3,850										
0000	0"						7	8,769,000	51,300	38,500	25,650	19,250	12,100	9,610	7,680	6,400	5,490	4,808	4,270	3,845	3,078										
0000	0"						8	10,400,000	40,660	30,500	20,300	15,200	10,150	7,680	6,100	5,078	4,350	3,800	3,389	3,030	2,440										
0000	0"						9	12,400,000	30,500	20,300	15,200	10,150	7,680	6,100	5,078	4,350	3,800	3,389	3,030	2,440	1,960										
0000	0"						10	13,849,000	25,600	15,200	12,800	9,600	6,400	4,800	3,840	3,260	2,740	2,400	2,135	1,920	1,535										
0000	0"						11	15,200,000	20,300	15,200	12,800	9,600	6,400	4,800	3,840	3,260	2,740	2,400	2,135	1,920	1,535										
0000	0"						12	16,800,000	15,200	12,800	9,600	6,400	4,800	3,840	3,260	2,740	2,400	2,135	1,920	1,535	1,215										
0000	0"						13	18,400,000	12,800	9,600	6,400	4,800	3,200	2,740	2,400	2,135	1,920	1,535	1,215	960	684										
0000	0"						14	20,000,000	9,600	6,400	4,800	3,200	2,400	1,600	1,200	960	800	684	600	534	498										
0000	0"						15	21,600,000	7,610	5,130	3,540	2,360	1,560	1,040	780	620	534	468	402	354	318										
0000	0"						16	23,200,000	6,040	4,020	3,020	2,010	1,310	1,005	755	604	502	431	377	338	302										

WIRING TABLE FOR PRIMARY CIRCUITS, 1,000 VOLTS.

[illegible]

WIRING TABLE FOR CIRCUITS, 2,000 VOLTS

[illegible]

WIRING TABLE FOR CIRCUITS, 3,000 VOLTS

Per cent. loss at 3,000 volts. Wire sizes in B. & S. gauge.							The figures at the top of each column indicate primary currents in amperes. Distance given below in feet to center of distribution.																											
2.	2.5	4.	5.	6.	8.	10.	3		6		12		18		24		36		42		56		60		75		90		100					
0000	0000	0000	0000	0000	0000	0000	0000	378,000	438,000	329,000	244,500	163,000	122,250	97,700	80,815	69,850	61,125	51,300	38,900	32,125	26,300	22,450	19,000	16,125	13,750	11,875	10,125	8,625	7,375	6,375	5,500			
0000	0000	0000	0000	0000	0000	0000	0000	775,000	887,500	628,300	394,000	129,150	97,700	77,500	64,575	53,000	44,500	34,653	28,750	23,000	19,250	16,500	14,000	12,000	10,250	8,750	7,500	6,375	5,500	4,750				
0000	0000	0000	0000	0000	0000	0000	0000	1,489,000	1,740,000	1,254,000	782,500	251,000	194,000	154,000	125,000	102,000	84,500	68,000	53,000	43,000	35,500	29,500	25,000	21,250	18,250	15,750	13,750	11,875	10,125	8,625	7,375			
0000	0000	0000	0000	0000	0000	0000	0000	2,755,000	3,240,000	2,310,000	1,422,000	451,000	341,000	270,000	216,000	175,000	145,000	115,000	89,000	72,000	59,000	49,000	41,000	34,500	29,500	25,000	21,250	18,250	15,750	13,750	11,875			
0000	0000	0000	0000	0000	0000	0000	0000	4,389,000	5,140,000	3,620,000	2,220,000	684,000	516,000	408,000	324,000	261,000	216,000	175,000	136,000	111,000	91,000	75,000	62,500	52,500	44,500	37,500	31,500	26,500	22,500	19,500	16,500			
0000	0000	0000	0000	0000	0000	0000	0000	6,399,000	7,540,000	5,240,000	3,180,000	972,000	738,000	576,000	456,000	366,000	300,000	246,000	198,000	160,000	132,000	109,000	90,000	75,000	62,500	52,500	44,500	37,500	31,500	26,500	22,500			
0000	0000	0000	0000	0000	0000	0000	0000	8,999,000	10,640,000	7,440,000	4,560,000	1,368,000	1,032,000	804,000	642,000	512,000	420,000	342,000	276,000	228,000	186,000	154,000	128,000	107,000	89,000	75,000	62,500	52,500	44,500	37,500	31,500			
0000	0000	0000	0000	0000	0000	0000	0000	11,599,000	13,720,000	9,640,000	5,880,000	1,764,000	1,344,000	1,056,000	840,000	672,000	540,000	438,000	354,000	288,000	234,000	192,000	159,000	133,000	111,000	92,000	77,000	64,000	53,000	44,000	37,000			
0000	0000	0000	0000	0000	0000	0000	0000	14,199,000	16,840,000	11,840,000	7,200,000	2,196,000	1,668,000	1,312,000	1,044,000	828,000	666,000	534,000	426,000	342,000	276,000	228,000	186,000	154,000	128,000	107,000	89,000	75,000	62,500	52,500	44,500			
0000	0000	0000	0000	0000	0000	0000	0000	16,799,000	19,960,000	13,840,000	8,400,000	2,592,000	1,992,000	1,560,000	1,236,000	972,000	780,000	630,000	504,000	402,000	324,000	264,000	216,000	178,000	147,000	122,000	101,000	84,000	70,000	58,000	48,000			
0000	0000	0000	0000	0000	0000	0000	0000	19,399,000	23,120,000	16,080,000	9,720,000	3,024,000	2,316,000	1,824,000	1,440,000	1,116,000	894,000	714,000	574,000	456,000	366,000	298,000	240,000	198,000	163,000	135,000	112,000	93,000	77,000	64,000	53,000			
0000	0000	0000	0000	0000	0000	0000	0000	21,999,000	26,240,000	18,400,000	11,160,000	3,456,000	2,664,000	2,088,000	1,632,000	1,260,000	1,008,000	804,000	648,000	522,000	414,000	336,000	276,000	228,000	186,000	154,000	128,000	107,000	89,000	75,000	62,500			
0000	0000	0000	0000	0000	0000	0000	0000	24,599,000	29,360,000	20,320,000	12,480,000	3,888,000	3,000,000	2,352,000	1,872,000	1,464,000	1,164,000	924,000	744,000	604,000	486,000	396,000	324,000	264,000	216,000	178,000	147,000	122,000	101,000	84,000	70,000			
0000	0000	0000	0000	0000	0000	0000	0000	27,199,000	32,480,000	22,560,000	13,840,000	4,320,000	3,360,000	2,640,000	2,088,000	1,632,000	1,260,000	1,008,000	804,000	648,000	522,000	414,000	336,000	276,000	228,000	186,000	154,000	128,000	107,000	89,000	75,000			
0000	0000	0000	0000	0000	0000	0000	0000	29,799,000	35,680,000	24,800,000	15,120,000	4,764,000	3,708,000	2,928,000	2,316,000	1,824,000	1,440,000	1,116,000	894,000	714,000	574,000	456,000	366,000	298,000	240,000	198,000	163,000	135,000	112,000	93,000	77,000			
0000	0000	0000	0000	0000	0000	0000	0000	32,399,000	38,880,000	27,040,000	16,400,000	5,208,000	4,056,000	3,168,000	2,504,000	1,968,000	1,536,000	1,216,000	972,000	780,000	630,000	504,000	402,000	324,000	264,000	216,000	178,000	147,000	122,000	101,000	84,000			
0000	0000	0000	0000	0000	0000	0000	0000	34,999,000	42,080,000	29,200,000	17,680,000	5,652,000	4,440,000	3,480,000	2,760,000	2,184,000	1,716,000	1,368,000	1,092,000	876,000	704,000	564,000	444,000	354,000	288,000	234,000	192,000	159,000	133,000	111,000	92,000			
0000	0000	0000	0000	0000	0000	0000	0000	37,599,000	45,280,000	31,360,000	18,960,000	6,096,000	4,824,000	3,768,000	2,976,000	2,352,000	1,872,000	1,464,000	1,164,000	924,000	744,000	604,000	486,000	396,000	324,000	264,000	216,000	178,000	147,000	122,000	101,000			
0000	0000	0000	0000	0000	0000	0000	0000	40,199,000	48,480,000	33,520,000	20,240,000	6,536,000	5,160,000	4,032,000	3,192,000	2,520,000	1,992,000	1,560,000	1,236,000	972,000	780,000	630,000	504,000	402,000	324,000	264,000	216,000	178,000	147,000	122,000	101,000			
0000	0000	0000	0000	0000	0000	0000	0000	42,799,000	51,680,000	35,680,000	21,520,000	6,984,000	5,544,000	4,320,000	3,408,000	2,712,000	2,136,000	1,680,000	1,332,000	1,068,000	852,000	684,000	544,000	434,000	344,000	276,000	228,000	186,000	154,000	128,000	107,000			
0000	0000	0000	0000	0000	0000	0000	0000	45,399,000	54,880,000	37,840,000	22,800,000	7,424,000	5,928,000	4,560,000	3,592,000	2,856,000	2,280,000	1,776,000	1,416,000	1,128,000	904,000	724,000	584,000	464,000	374,000	306,000	246,000	198,000	163,000	135,000	112,000			
0000	0000	0000	0000	0000	0000	0000	0000	47,999,000	58,080,000	40,000,000	24,080,000	7,872,000	6,312,000	4,920,000	3,888,000	3,120,000	2,496,000	1,968,000	1,536,000	1,216,000	972,000	780,000	630,000	504,000	402,000	324,000	264,000	216,000	178,000	147,000	122,000			
0000	0000	0000	0000	0000	0000	0000	0000	50,599,000	61,280,000	42,160,000	25,360,000	8,312,000	6,696,000	5,160,000	4,032,000	3,192,000	2,520,000	1,992,000	1,560,000	1,236,000	972,000	780,000	630,000	504,000	402,000	324,000	264,000	216,000	178,000	147,000	122,000			
0000	0000	0000	0000	0000	0000	0000	0000	53,199,000	64,480,000	44,280,000	26,640,000	8,760,000	7,128,000	5,520,000	4,320,000	3,408,000	2,712,000	2,136,000	1,680,000	1,332,000	1,068,000	852,000	684,000	544,000	434,000	344,000	276,000	228,000	186,000	154,000	128,000			
0000	0000	0000	0000	0000	0000	0000	0000	55,799,000	67,680,000	46,360,000	27,920,000	9,200,000	7,584,000	5,920,000	4,560,000	3,592,000	2,856,000	2,280,000	1,776,000	1,416,000	1,128,000	904,000	724,000	584,000	464,000	374,000	306,000	246,000	198,000	163,000	135,000			
0000	0000	0000	0000	0000	0000	0000	0000	58,399,000	70,880,000	48,480,000	29,200,000	9,600,000	8,064,000	6,240,000	4,824,000	3,768,000	3,024,000	2,400,000	1,920,000	1,520,000	1,200,000	960,000	768,000	616,000	496,000	396,000	316,000	256,000	206,000	168,000	138,000			
0000	0000	0000	0000	0000	0000	0000	0000	60,999,000	74,080,000	50,560,000	30,480,000	10,000,000	8,496,000	6,560,000	5,040,000	3,960,000	3,120,000	2,496,000	1,968,000	1,536,000	1,216,000	972,000	780,000	630,000	504,000	402,000	324,000	264,000	216,000	178,000	147,000			
0000	0000	0000	0000	0000	0000	0000	0000	63,599,000	77,280,000	52,680,000	31,760,000	10,400,000	8,928,000	6,960,000	5,360,000	4,160,000	3,280,000	2,656,000	2,112,000	1,696,000	1,376,000	1,104,000	880,000	704,000	564,000	444,000	354,000	288,000	234,000	192,000	159,000			
0000	0000	0000	0000	0000	0000	0000	0000	66,199,000	80,480,000	54,760,000	33,040,000	10,800,000	9,360,000	7,280,000	5,600,000	4,320,000	3,408,000	2,712,000	2,136,000	1,680,000	1,332,000	1,068,000	852,000	684,000	544,000	434,000	344,000	276,000	228,000	186,000	154,000			
0000	0000	0000	0000	0000	0000	0000	0000	68,799,000	83,680,000	56,840,000	34,320,000	11,200,000	9,840,000	7,680,000	5,920,000	4,560,000	3,592,000	2,856,000	2,280,000	1,776,000	1,416,000	1,128,000	904,000	724,000	584,000	464,000	374,000	306,000	246,000	198,000	163,000			
0000	0000	0000	0000	0000	0000	0000	0000	71,399,000	86,880,000	58,920,000	35,600,000	11,600,000	10,320,000	8,160,000	6,240,000	4,824,000	3,768,000	3,024,000	2,400,000	1,920,000	1,520,000	1,200,000	960,000	768,000	616,000	496,000	396,000	316,000	256,000	206,000	168,000			
0000	0000	0000	0000	0000	0000	0000	0000	73,999,000	90,080,000	61,000,000	36,880,000	12,000,000	10,800,000	8,640,000	6,560,000	5,040,000	3,960,000	3,120,000	2,496,000	1,968,000	1,536,000	1,21												

WIRING TABLE FOR CIRCUITS, 5,000 VOLTS

[illegible]

Bare Copper Wire.

SPECIAL PRICES QUOTED ON EITHER SOFT OR HARD DRAWN.



Am. Gauge, B. & S. No.	Diam. Mils.	Area		Weight & L'gth Sp. Gr. 8.9		Resistance at 75° F			
		Circular Mils. (d) 1 Mil. = .001 Inch.	Square In. (1/16" = .0625)	Lbs. per 1,000 Ft.	Feet per Lb.	R. Ohms per 1,000 Feet	Ohms per Mile	Feet per Ohm.	Ohms per Lb.
0000	460.000	211600.00	166190	639.33	3375.7	1.56	.04906	.25903	.000076736
000	409.640	167805.00	131790	507.01	2677.0	1.97	.06186	.32664	.00012039
00	364.800	133079.40	104520	402.09	2123.0	2.49	.07801	.41187	.00019433
0	324.950	105592.50	82933	319.04	1684.5	3.13	.09831	.51909	.00030772
1	289.300	83691.20	65733	252.88	1335.2	3.95	.12404	.65490	.00048994
2	257.630	66373.00	52130	200.54	1058.8	4.99	.15640	.82582	.00078045
3	229.420	52634.00	41339	159.03	839.68	6.29	.19723	1.0414	.0012406
4	204.310	41742.00	32784	126.12	665.91	7.93	.24869	1.3131	.0019721
5	181.940	33102.00	25993	100.01	528.05	10.00	.31361	1.6558	.0031361
6	162.020	26250.50	20617	79.32	418.81	12.61	.39546	2.0881	.0049863
7	144.280	20816.00	16349	62.90	332.11	15.90	.49871	2.6931	.0079294
8	128.490	16509.00	12966	49.88	263.37	20.05	.62881	3.3201	.012608
9	114.480	13094.00	10284	39.56	208.88	25.28	.79281	4.1860	.020042
10	101.890	10381.00	8153.2	31.37	165.63	31.38	1.	5.2800	.031380
11	90.742	8234.00	6467.0	24.88	137.37	40.20	1.2607	6.6568	.050682
12	80.808	6529.90	5128.6	19.73	104.18	50.69	1.5898	8.8940	.080585

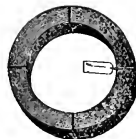
Dimensions and Resistances of Copper Wire.

LARGER THAN NO. 0000 B. & S.

No. B. & S.	Diameter. In. Mils.	Circular Mils.	Feet per Lb.	Lbs. per Foot.	Feet per Ohm.	Ohms per Mile.	Approximate Safe Carrying Capacity Amperes.	H. P. Carried at 500 Volts.
5°	$\frac{3}{16}$ 515	265225	1.2963	.8023	24658	.205776	375	251.3
6°	$\frac{1}{8}$ 575	330625	.9988	1.0000	31986	.165075	457	306.3
7°	$\frac{7}{32}$ 640	409600	.8070	1.2391	38343	.133244	533	342.2
8°	$\frac{3}{16}$ 710	504100	.6557	1.5250	48769	.108266	620	414.2
9°	$\frac{1}{4}$ 785	616225	.5364	1.8642	59615	.088566	709	476.5
10°	$\frac{9}{32}$ 865	743225	.4416	2.2535	72385	.072941	786	526.8
11°	$\frac{5}{16}$ 950	902500	.3662	2.7302	87302	.060495	849	569.
12°	$\frac{1}{2}$ 1040	1081600	.2131	3.2720	104641	.050450	940	630.

Galvanized Iron Telegraph Wire.

SPECIAL PRICES QUOTED ON APPLICATION

Can be Furnished also in Two Ply Twisted, for Guy Purposes. Western Union Standard
Sp. Grav. 7.74.

No. B. & S.	G.	Size Bundled	Weight in Pounds.		Resist. in B.A. Ohms at 75° F	
			Per 1,000 Feet.	Per Mile	Per 1,000 Feet.	Per Mile
4		$\frac{1}{8}$ Mile.	149.25	788.01	1.15	6.09
5		$\frac{1}{8}$ "	127.54	673.44	1.35	7.12
6		$\frac{1}{8}$ "	108.6	573.38	1.58	8.37
7		$\frac{1}{8}$ "	85.38	450.81	2.023	10.65
8		$\frac{1}{8}$ "	71.74	378.82	2.4	12.67
9		$\frac{1}{8}$ "	57.72	304.77	2.98	15.75
10		$\frac{1}{8}$ "	47.32	249.84	3.64	19.21
11		$\frac{1}{8}$ "	37.95	200.36	4.54	23.95
12		$\frac{1}{8}$ "	31.81	165.01	5.51	29.1
13		$\frac{1}{8}$ "	29.94	125.57	7.24	38.22
14		$\frac{1}{8}$ "	18.15	95.85	9.48	50.07

Table showing Difference
Between Wire Gauges in Decimal
Parts of an Inch.

No. of Wire Gauge.	American or Brown & Sharpe.	Birmingham or Stubbs.	Washburn & Moen M. Co., Worcester, Mass.	Trenton Iron Co., Trenton, N. J.	New British.	Old English from Brass Mrs. List.	No. of Wire.
000000	.....	..	46	.....	.....	.....	000000
00000	.....	.....	43	.....	.....	.....	000000
0000	46	454	363	4	4	.....	0000
000	4094	425	362	36	372	.....	000
00	3648	38	331	33	348	.....	00
0	32455	34	307	305	324	.....	0
1	2805	3	283	285	3	.....	1
2	25763	284	263	265	276	.....	2
3	22942	259	244	245	252	.....	3
4	20431	238	225	225	232	.....	4
5	18194	22	207	205	212	.....	5
6	16292	203	192	19	192	.....	6
7	14428	18	177	175	176	.....	7
8	12849	165	162	16	16	.....	8
9	11443	148	148	145	144	.....	9
10	10189	134	135	13	128	.....	10
11	090742	12	12	1175	116	.....	11
12	080808	109	105	105	104	.....	12
13	071961	065	092	0525	092	.....	13
14	064084	083	08	08	08	083	14
15	057088	072	072	07	072	072	15
16	05082	065	063	061	064	065	16
17	045257	058	054	0525	056	058	17
18	040303	049	047	045	048	049	18
19	03589	042	041	039	04	04	19
20	031961	035	035	034	036	035	20
21	028462	032	032	03	032	0315	21
22	025347	028	028	27	028	0255	22
23	022571	025	025	024	024	027	23
24	0201	022	023	0215	022	025	24
25	0179	02	02	019	02	023	25
26	01594	018	018	018	018	0205	26
27	014195	016	017	017	0164	01875	27
28	012941	014	016	016	0148	0165	28
29	011257	013	015	015	0136	0155	29
30	010025	012	014	014	0134	01375	30
31	008928	01	0135	013	0116	01225	31
32	00795	009	013	012	0108	01125	32
33	00708	008	011	011	01	01025	33
34	006304	007	01	01	0092	0065	34
35	005614	005	0095	009	0084	009	35
36	005	004	009	008	0076	0075	36
37	004453	.....	0085	00725	0068	0065	37
38	003965	.....	008	0065	006	00575	38
39	003531	.....	0075	00575	0052	005	39
40	003144	.....	007	005	0048	0045	40

Equivalents of Wires
Brown & Sharpe Gauge.

0000	2	No. 0	4	No. 3	8	No. 6	16	No. 9	32	No. 12	64	No. 15
000	2	0	1	4	8	16	32	64	128	256	512	1024
100	2	1	1	4	8	16	32	64	128	256	512	1024
20	2	2	1	4	8	16	32	64	128	256	512	1024
30	2	3	1	4	8	16	32	64	128	256	512	1024
40	2	4	1	4	8	16	32	64	128	256	512	1024
50	2	5	1	4	8	16	32	64	128	256	512	1024
60	2	6	1	4	8	16	32	64	128	256	512	1024
70	2	7	1	4	8	16	32	64	128	256	512	1024
80	2	8	1	4	8	16	32	64	128	256	512	1024
90	2	9	1	4	8	16	32	64	128	256	512	1024
100	2	10	1	4	8	16	32	64	128	256	512	1024
110	2	11	1	4	8	16	32	64	128	256	512	1024
120	2	12	1	4	8	16	32	64	128	256	512	1024
130	2	13	1	4	8	16	32	64	128	256	512	1024
140	2	14	1	4	8	16	32	64	128	256	512	1024
150	2	15	1	4	8	16	32	64	128	256	512	1024
160	2	16	1	4	8	16	32	64	128	256	512	1024
170	2	17	1	4	8	16	32	64	128	256	512	1024
180	2	18	1	4	8	16	32	64	128	256	512	1024
190	2	19	1	4	8	16	32	64	128	256	512	1024
200	2	20	1	4	8	16	32	64	128	256	512	1024
210	2	21	1	4	8	16	32	64	128	256	512	1024
220	2	22	1	4	8	16	32	64	128	256	512	1024
230	2	23	1	4	8	16	32	64	128	256	512	1024
240	2	24	1	4	8	16	32	64	128	256	512	1024
250	2	25	1	4	8	16	32	64	128	256	512	1024
260	2	26	1	4	8	16	32	64	128	256	512	1024
270	2	27	1	4	8	16	32	64	128	256	512	1024
280	2	28	1	4	8	16	32	64	128	256	512	1024
290	2	29	1	4	8	16	32	64	128	256	512	1024
300	2	30	1	4	8	16	32	64	128	256	512	1024
310	2	31	1	4	8	16	32	64	128	256	512	1024
320	2	32	1	4	8	16	32	64	128	256	512	1024
330	2	33	1	4	8	16	32	64	128	256	512	1024
340	2	34	1	4	8	16	32	64	128	256	512	1024
350	2	35	1	4	8	16	32	64	128	256	512	1024
360	2	36	1	4	8	16	32	64	128	256	512	1024
370	2	37	1	4	8	16	32	64	128	256	512	1024
380	2	38	1	4	8	16	32	64	128	256	512	1024
390	2	39	1	4	8	16	32	64	128	256	512	1024
400	2	40	1	4	8	16	32	64	128	256	512	1024

Electric Light Conductors.

BROWN & SHARPE	Diameter.	Square of Diameter.	Sectional Area.	SAFE CARRYING CAPACITY IN AMPERES.			WEIGHT.			LENGTH.		RESISTANCE OF PURE COPPER WIRE AT 75 DEGREES F. (25.50 DEG. CENT.)			
				National Code.	New England Code.	Chicago Code.	BARE.	WEATHER-PROOF INSULATION.	WEATHER-PROOF INSULATION.	Feet per Pound.	Feet per Pound.	Ohms per 1,000 Feet.	Ohms per Mile.	Feet per Ohm.	Ohms per Pound.
0000	480.000	11.684	21.100	0	107.219	175.300	218.319	33.3359	758	4000	1.95	.04904	.25403	39383	.00075786
000	408.640	10.465	167.805	0	65.028	145.245	181.262	507.01	406	3200	1.75	.06186	.32044	16165	.00012039
00	364.800	9.266	133.079	4	67.431	120.213	150.226	402.09	492	2600	2	.07801	.41187	12820	.00014423
0	324.450	8.254	105.092	5	53.504	100.190	125.185	319.04	385	2036	2.50	.09831	.51909	10409	.00030772
1	289.300	7.348	83.694	2	42.409	85.100	105.157	232.86	308	1628	3.25	.12404	.65490	8092.3	.00048904
2	257.630	6.544	66.373	0	33.632	70.135	88.131	200.34	250	1310	4	.15640	.82582	6363.7	.00078045
3	229.420	5.827	52.634	0	26.670	60.115	75.110	259.03	201	1060	6.3	.19723	1.0414	5070.2	.0012406
4	204.310	5.159	41.742	0	21.151	50.100	63.92	136.12	162	862	8	.24869	1.3131	4021.0	.0019721
5	181.940	4.621	33.102	0	16.773	45.90	53.77	100.01	134	706	10	.31361	1.6558	3188.7	.0031361
6	162.620	4.115	26.250	5	13.301	35.80	45.65	79.32	110	577	12.6	.38546	2.0881	2528.7	.0049808
7	144.280	3.665	20.616	0	10.548	30.67	42.62	60.330	90	475	16	.49871	2.6331	2005.2	.0079254
8	128.490	3.264	16.090	0	8.366	25.60	33.46	49.80	74	392	20	.62881	3.3201	1590.3	.012408
9	114.430	2.907	13.064	0	6.635	20.50	39.56	39.56	62	328	25	.79281	4.1860	1261.3	.020042
10	101.890	2.588	10.881	0	5.290	20.40	32.31	37.165	52	275	32	1.12607	5.2800	1001.0	.031380
11	90.742	2.305	8.234	0	4.172	15.35	24.88	31.44	44	231	40	1.2607	6.4568	793.18	.050682
12	80.808	2.063	6.629	9	3.309	15.30	17.23	19.73	36	193	51	1.5898	8.3940	629.02	.060365
13	71.901	1.828	5.178	4	2.618	15.25	15.65	16.82	31	162	64	2.0047	10.585	498.53	.0841
14	64.084	1.628	4.106	8	2.081	10.22	12.41	12.41	26	135	81	2.5908	13.680	385.97	.06880
15	57.008	1.450	3.256	7	1.650	10.18	9.84	11.51	21	111	102	3.1150	16.477	321.02	.13658
16	50.820	1.291	2.582	9	1.309	10.15	7.81	11.41	18	90	129	4.0191	21.221	248.81	.15101

BOOKS.

	PRICE
ABERNETHY.....Commercial and Railway Telegraphy.....	\$2.00
ALLSOP.....Electric Bell Construction.....	1.25
ALLSOP.....Electric Bell Fitting.....	1.25
ALLSOP.....Induction Coils.....	1.25
ALLSOP.....Telephones: Their Construction and Fitting.....	2.00
ALLSOP.....Electric Light Fitting.....	1.50
ANDERSON.....Lightning Conductors.....	5.00
ATEINSON.....Elements of Electric Lighting.....	1.50
ATEINSON.....Static Electricity.....	1.50
ATEINSON.....Dynamic Electricity.....	2.00
ATEINSON.....Electric Transformation of Power.....	2.00
ATWOOD.....Practical Dynamo Building.....	3.00
ATYRTON.....Practical Electricity.....	2.50
BADT.....Dynamo Tenders' Handbook.....	1.00
BADT.....Electric Transmission.....	1.00
BADT.....Incandescent Wiring.....	1.00
BADT.....Bell Hangers' Handbook.....	1.00
BEDELL & CREHORE.....Alternating Currents.....	2.50
BENJAMIN.....Voltaic Cell.....	5.00
BONNEY.....Electroplaters' Handbook.....	1.20
BOTTONE.....Electric Instrument Making.....	.50
BOTTONE.....Electric Bells and All About Them.....	.50
BOTTONE.....Electric Motors.....	.50
CARHART.....Primary Batteries.....	1.50
COX.....Continuous Current Dynamos and Motors.....	2.00
CROCKER & WHEELER.....Practical Management of Dynamos and Motors.....	1.00
CROSBY & BELL.....Electric Railway in Theory and Practice.....	2.50
DAVIS.....Standard Tables for Electric Wiremen.....	1.00
DAY.....Electrical and Magnetic Measurement.....	1.00
DEARLOVE.....Working Speed of Cables.....	.75
DESMOND.....Electricity for Engineers.....	2.50
DOLBEAR.....The Telephone.....	.50
DU MONCEL.....Electricity as a Motive Power.....	3.00
DU MONCEL.....Electro-Magnets.....	.75
EWING.....Magnetic Induction of Iron.....	4.00

	Price.
FAHTE.....House Lighting by Electricity.....	\$0.80
FAHTE.....History of Electric Telegraphy.....	3.00
FISKE.....Electricity in Theory and Practice.....	2.50
FLEMING.....Short Lectures to Electrical Artisans.....	1.50
GILBERT.....De Magnete.....	4.00
GORE.....Art of Electro-Metallurgy.....	2.00
GORE.....Electro-Chemistry.....	.80
GORE.....Electric Separation of Metals.....	3 50
GUILLEMIN.....Electricity and Magnetism.....	8.00
GRIER.....Wiring Tables, how they are made and how to use them.....	1.00
HALL DAY.....Design of Small Dynamo.....	1.00
HASKINS.....Transformers.....	1.25
HASKINS.....Galvanometer and Its Uses.....	1.50
HAWKINS & WALLIS.....Dynamo.....	3.00
HEDGES.....Continental Electric Light Central Stations.....	6.00
HEDGES.....American Electric Street Railways.....	5.00
HERING.....Dynamo Electric Machines.....	2.50
HERING.....Winding Magnet and Dynamos.....	1.25
HERING.....Universal Wiring Computer.....	1.00
HERING.....Recent Progress in Electric Railways.....	1.00
HOPKINS.....Telephone Lines.....	1.50
HOPKINSON.....Dynamic Electricity.....	.50
HOPKINSON.....Original Papers on Dynamo Machinery.....	1.00
HOSKIAR.....Electric Testing of Electric Cables.....	1.50
HOSPITALIER.....Domestic Electricity for Amateurs.....	2.50
HOSPITALIER.....Polyphased Currents.....	1.40
HOUSTON.....Dictionary of Electrical Words, Terms and Phrases.....	5.00
HOUSTON.....Electricity and Magnetism.....	1.00
HOUSTON.....Electrical Measurements.....	1.00
HUGHES.....Magnet Hand Telephone.....	1.00
JACKSON.....Electro-Magnets and Construction of Dynamo.....	2.25
JENKIN.....Elementary Electricity.....	.40
JENKIN.....Electricity and Magnetism.....	1.25
KAPP.....Electric Transmission of Energy, New Edition.....	3.50
KAPP.....Alternate Current Machinery.....	.50
KAPP.....Alternating Currents of Electricity.....	1.00
KAPP.....Dynamoes, Motors and Transformers.....	4.00
KEMPE.....Electric Testing.....	7.25
KENNELLY.....Electro-Dynamic Machinery.....	1.50
LANGBEIN & BRANNT.....Electro-Deposition.....	4.00
LATIMER.....Incandescent Electric Lighting.....	.50
LOCKWOOD.....Electricity, Magnetism and Electric Telegraphy.....	2.50
LOCKWOOD.....Electrical Measurement and the Galvanometer.....	1.50
LOCKWOOD.....Practical Information for Telephonists.....	1.00
LODGE.....Modern Views of Electricity.....	2.00
LODGE.....Lightning Conductors.....	4.00
LORING.....Electro-Magnetic Telegraph.....	.50

	Price.
MARTIN.....Inventions of Nikola Tesla.....	\$4.00
MARTIN & WETZLER.....Electro-Motor and Its Applications.....	3.00
MAVER.....American Telegraphy.....	3.50
MAVER & DAVIS.....The Quadruplex.....	1.50
MAYCOCK.....Practical Electrical Notes.....	1.25
MCCLURE.....Edison and His Inventions.....	1.00
McMILLAN.....Electro Metallurgy.....	3.50
MEADOWCROFT.....A B C of Electricity.....	.50
MERRILL.....Electric Lighting Specifications.....	1.50
MONROE & JAMIESON.....Pocket Book of Electrical Rules.....	2.50
NAUDET.....Treatise on Electric Batteries.....	2.50
NIBLETT.....Portable Electricity.....	1.00
NOLL.....How to Wire Buildings.....	1.50
NIPHER.....Theory of Magnetic Measurement.....	1.00
OHM.....Galvanic Current Investigated.....	.50
PARKHURST.....Electric Motor Construction for Amateurs.....	1.00
PARKHURST.....Dynamo and Motor Building.....	1.00
POOLE.....Practical Telephone Handbook.....	1.50
POPE.....Electric Telegraph.....	1.50
.....Practical Electrics.....	.75
PREECE & SIVEWRIGHT.....Telegraphy.....	2.00
PREECE & STUBBS.....Manual of Telephony.....	4.50
PRESCOTT.....Electric Telegraph, 2 Vols.....	7.00
PRESCOTT.....Electric Telephone.....	6.00
PRESCOTT.....Dynamo Electricity.....	5.00
RAM.....Incandescent Lamp Manufacture.....	3.00
RECKENZAUN.....Electric Traction on Tramways.....	4.00
REPORTS.....Committee on Electrical Standards.....	3.75
REYNIER.....Voltaic Accumulators.....	3.00
RUSSELL.....Electric Light Cables.....	2.25
SALOMONS.....Management of Accumulators.....	1.50
SCHLEEN.....Magneto-Electric and Dynamo-Electric Machines.....	5.00
SLOANE.....Electricity Simplified.....	1.00
SLOANE.....Electric Toy Making.....	1.00
SLOANE.....Arithmetic of Electricity.....	1.00
SLOANE.....Standard Electrical Dictionary.....	3.00
SPANG.....Lightning Protection.....	.75
SPON.....Workshop Receipts.....	2.00
SPRAQUE.....Electricity.....	6.00
STEPHEN.....Wrinkles in Electric Lighting.....	1.00
SWINBORNE & OTHERS.....Electric Measuring Instruments.....	.50
SYMONS.....Lightning Rod Conference.....	3.00
TERRY & FINN.....Telegraphic Apparatus.....	1.50
TESLA.....Alternate Currents.....	1.00
THOM & JONES.....Telegraphic Connection.....	1.50

	PRICE.
THOMPSON.....Philip Reis, Inventor of Telephone.....	\$3.00
THOMPSON.....Electro-Magnets.....	6.00
THOMPSON.....Elementary Lessons in Electricity and Magnetism.....	1.25
THOMPSON.....Dynamo Electric Machinery, 5th Edition.....	9.00
THOMPSON & THOMAS.....Electrical Tables and Memoranda.....	.50
UPPENBORN.....History of the Transformer.....	.75
URQUHART.....Electrotyping.....	2.00
URQUHART.....Electric Light.....	3.00
URQUHART.....Electric Light Fitting.....	2.00
URQUHART.....Dynamo Construction.....	3.00
WALKER.....Practical Dynamo Building.....	.50
WALKER.....Electric Lighting for Marine Engineers.....	2.00
WATT.....Electro-Metallurgy.....	1.00
WEBB.....Testing Insulated Cables.....	1.00
WEYMOUTH.....Theory and Construction of Drum Winding.....	3.00

INDEX.

Index to Code Words.

[illegible]

Acheensue	231	Actionable	496	Alleging	471	Arbitrator	401	Astronomer	262	Bilious	427
Achertse	231	Actionably	496	Alliant	471	Arcade	401	Astute	262	Bilk	428
Achievement	231	Actioned	496	Allied	471	Astology	401	Atlantic	262	Bilk	428
Achiever	231	Actionist	497	Alligat	471	Archibald	401	Attitude	267	Bilking	377
Achieve	231	Action-striano	497	Allition	471	Archer	401	Atlantis	267	Billook	377
Achor	241	Acclimation	497	Allusion	471	Archery	89	Atlas	267	Billet	377
Achromatic	231	Acclimated	497	Allo	471	Architect	401	Atmosphere	267	Billion	418
Acidiferous	231	Active	497	Allopathy	471	Archives	407			Bindingly	104
Acidifiable	231	Actively	497	Alt	471	Archness	407	B		Innate	411
Acidification	231	Activism	497	Altitude	471	Archness	407	Bald	451	Innocent	374
Acidifier	231	Activity	497	Allowance	411	Archwise	407	Bawling	101	Innoculate	374
Acidify	232	Actless	497	Allowing	411	Arche	407	Beach	101	Rinomial	402
Acidimeter	232	Actopion	503	Alloy	411	Arduous	407	Beacon	101	Biographic	416
Acidimetry	232	Actual	497	Alloyed	411	Area	407	Bennbird	101	Biographical	416
Acidulate	231	Actually	497	Alspice	411	Argent	407	Beardless	407	Biography	416
Acidulab	231	Actualization	497	Altitude	411	Argument	407	Beast	407	Biology	416
Acidulous	231	Actualize	497	Alting	411	Arise	407	Beantree	407	Birch	416
Aceiron	231	Actualy	497	Aluminor	483	Aridity	407	Beamy	407	Birchen	416
Aceironous	231	Actuabness	497	Alured	483	Arigit	407	Beant	407	Bird	416
Aceirones	231	Actuaces	497	Alusion	483	Arise	407	Beaneaper	407	Blaze	416
Aceironiform	231	Actuator	497	Alusively	483	Ariston	407	Beanoed	407	Blanche	416
Aceironin	231	Actuose	497	Alumandine	483	Aristocrate	407	Beanoed	407	Blas	416
Aceironous	239	Actuosity	497	Alumichity	483	Arist	407	Beanoed	407	Blas	416
Aceironous	239	Actupis	503	Almighty	483	Armorer	407	Beanoose	407	Blaster	416
Aceironus	149	Acture	503	Almhouse	483	Armorial	407	Beano	407	Blasting	416
Aceipenser	149	Acture	503	Alot	483	Armorie	407	Beano	407	Blasphemy	416
Aceit	149	Actutator	503	Alot	483	Armory	407	Beano	407	Blasphemy	416
Acknow	149	Actutator	503	Alph	483	Armory	407	Beano	407	Blasphemy	416
Acknowledge	149	Actutator	503	Alphabet	483	Armory	407	Beano	407	Blasphemy	416
Acknowledged	149	Adapt	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Acknowledgment	249	Adapt	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceline	150	Adapt	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceline	150	Adapt	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Acecockbill	150	Adapt	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Acecockbill	150	Adapt	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceology	150	Add	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addible	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	416
Aceolyte	150	Addice	501	Alph	483	Armory	407	Beano	407	Blasphemy	

[illegible]

WESTERN ELECTRIC COMPANY.

525

PAGE.		PAGE.		PAGE.		PAGE.		PAGE.		PAGE.		PAGE.	
Indignation	348	Jasper	488	Joviality	484	Ladylike	289	Liniment	224	Loveliness	200		
Indignity	348	Jaspold	488	Joy	484	Lazier	289	Linking	224	Lovorn	200		
Indirect	348	Jaudon	488	Joyful	484	Lagging	289	Linnets	224	Loavely	200		
Indiscreet	348	Jaudon	488	Joyfulness	484	Laidly	289	Lining	224	Lover	200		
Indispose	355	Javel	488	Joyfulness	484	Laily	289	Lintel	223	Lovesome	200		
Indisposed	355	Javelin	488	Joyous	484	Lamb	289	Lioness	223	Lower	200		
Indisposing	355	Jawbone	488	Joyously	484	Lambkin	289	Lionize	223	Lowered	200		
Indistinct	355	Jay	488	Joyously	484	Lambkin	289	Lionizing	223	Lowery	200		
Indistinctly	355	Jean	488	Jubilant	484	Lambel	289	Liquidated	223	Lowland	200		
Indorse	355	Jears	488	Jubilate	484	Lamellifer	289	Liquidating	223	Lowly	211		
Inductive	355	Jeddie	488	Jubilation	484	Lament	289	Lofery	223	Lubricant	200		
Indorsement	355	Jear	488	Judab	484	Lamentable	289	Lisbon	223	Lubrication	247		
Indorser	355	Jeered	488	Judicial	484	Lamentably	289	Lisp	237	Luce	247		
Induce	355	Jeerer	488	Judicious	484	Lamentation	289	Lisped	237	Lucidity	247		
Induct	355	Jeering	488	Julia	484	Lamenting	289	Lispings	237	Lucky	247		
Inducted	355	Jefferson	410	Jumping	154	Lamenting	289	Lispings	237	Luckily	247		
Inducting	355	Jehevah	435	Junction	154	Laminate	289	Liscen	237	Luckiness	247		
Inductively	355	Jehevoist	435	Juncture	154	Lampoon	240	Liscen	237	Luckiness	247		
Inductor	355	Jelly	488	Juzule	484	Lampooned	240	Lisening	237	Lucklessly	247		
Indulge	355	Jenny	488	Junio	484	Lantern	289	Listful	469	Lucky	247		
Indulgent	355	Jenkinstown	488	Junior	488	Lance	240	Listless	469	Lumber	247		
Industry	355	Jeanet	355			Lance	240	Liter	469	Lumpish	247		
Inc	355	Jenning	385			Lanced	240	Literally	469	Lumpish	247		
Infamous	355	Jennings	410			Land	240	Literature	469	Lumpish	247		
Infant	355	Jenny	488	Killing	351	Landas	351	Litter	247	Lurch	393		
Infancy	355	Jenny	488	Kiln	351	Landed	240	Litter	247	Luggage	393		
Infantile	355	Jeopard	488	Kilt	351	Landholder	240	Lithograph	247	Lugger	393		
Infantile	355	Jeopardize	488	Kilting	351	Landings	240	Litigant	247	Lull	393		
Infants	355	Jeoparding	488	Kindle	351	Landless	240	Litigate	247	Lull	393		
Ingals	409	Jeopardize	488	Kindled	351	Landlord	288	Litmus	208	Lullaby	393		
Ingation	409	Jeopardy	488	Kindler	351	Landman	288	Litter	208	Lulled	393		
Ingerson	409	Jeopardy	488	Kindler	351	Landmark	288	Litter	208	Lumber	393		
Ingerson	409	Jeopardy	488	Kindness	351	Landmark	288	Littleness	208	Lumbering	393		
Ingrams	449	Jeremad	488	Kindness	351	Landroll	288	Littleness	208	Lumbering	393		
Inkers	409	Jeremah	488	Kindling	351	Landscape	288	Littoral	208	Lumbering	393		
Inkwell	409	Jericho	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Inwood	409	Jerker	488	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Iola	409	Jerkin	488	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ione	409	Jerkin	488	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Iona	409	Jerome	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipava	409	Jersey	488	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409	Jerusalem	410	Kindred	351	Landscapes	288	Littoral	208	Lumbering	393		
Ipswich	409</												

WESTERN ELECTRIC COMPANY.

[illegible]

527

[illegible]

529

[illegible]

[illegible]

531

T	
Thimble.....	102
Tiger.....	102
Tigress.....	102
Tippler.....	102
V	
Vagrancy.....	289
Versatile.....	440
Vertebra.....	440
Vestment.....	440
Vigorous.....	100
Villager.....	109
Vineyard.....	68
Vividly.....	440
Volant.....	70
Volution.....	70
Volley.....	70

Index to Numbers.

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
1	431	213	155	430	446	607	289	821	14
1½	431	214	155	431	446	608	289	822	14
2	431	239	107	432	447	609	289	823	14
2½	431	240	107	433	447	610	289	824	14
6	65	241	21	434	447	611	289	825	14
6½	330	242	21	435	447	612	289	826	14
8	432	243	21	436	447	613	288	827	9
9	432	246	21	437	447	614	288	828	9
012	441	247	22	438	447	615	288	829	9
13	441	248	22	439	447	616	288	830	9
013½	441	249	22	440	447	617	288	831	9
14	441	250	22	441	446	618	288	832	9
18	60	251	22	442	446	619	288	833	9
19	61	254	23	443	447	620	288	834	9
20	441	255	23	444	447	621	288	835	9
20½	441	256	23	445	447	622	288	836	9
22	79	257	23	446	447	623	288	837	9
23	79	258	23	447	448	624	288	838	9
24	79	259	23	448	448	625	288	839	14
25	79	260	23	449	448	626	177	841	12
26	79	261	23	450	448	627	177	842	12
27	79	262	24-102	451	448	628	177	843	12
28	79	263	24	452	449	629	177	844	12
29	10	274	353	453	448	630	177	845	10
33½	10	300	440	454	448	631	177	846	10
34	10	301	440	455	448	632	177	847	10
34½	10	302	440	456	448	633	177	848	10
35	10	303	440	457	448	634	177	849	83
35½	10	372	136	458	448	635	177	850	83
36	10	373	136	459	448	636	177	851	83
36½	10	374	136	460	448	637	177	852	83
37	441	375	136	461	448	638	177	853	415
37½	441	376	136	470	247	639	177	854	415
38	80	377	136	471	247	640	177	855	85
37	80	378	136	472	247	641	177	856	83
40	66	379	136	473	247	642	177	857	361
40½	433	380	136	474	247	643	177	858	83
64	62	381	136	475	247	644	177	859	83
66	351	382	136	476	435	645	177	860	83
61	433	383	136	477	435	646	177	861	101
63	351	384	136	478	435	647	177	862	83
64	433	385	136	479	435	648	177	863	83
64½	433	386	446	480	435	649	177	864	83
66	351	387	446	481	435	650	177	865	83
70	66	388	446	482	435	651	177	866	289
74	62	389	446	483	435	652	177	867	77
76	62	390	447	484	435	653	177	868	77
81	66	391	447	485	435	654	177	869	77
82	66	392	447	486	435	655	177	870	77
106	378	393	447	487	435	656	177	871	77
108	37	394	447	488	435	657	177	872	77
109	37	395	447	489	435	658	177	873	77
111	37	396	447	490	435	659	177	874	77
112	397	397	447	491	435	660	177	875	76
114	37	398	447	492	435	661	177	876	76
115	37	399	447	493	435	662	177	877	76
117	37	400	447	494	435	663	177	878	76
120½	329	401	446	495	435	664	177	879	76
126	136	402	446	496	435	665	177	880	76
128½	329	403	446	497	435	666	177	881	76
130	441	404	447	498	435	667	177	882	76
130½	441	405	447	499	435	668	177	883	76
134	11	406	447	500	435	669	177	884	76
134½	11	407	447	501	435	670	177	885	76
135	11	408	447	502	435	671	177	886	76
135½	11	409	447	503	435	672	177	887	76
136	115	410	447	504	435	673	177	888	76
137	154	411	447	505	435	674	177	889	76
138	154	412	447	506	435	675	177	890	76
139	154	413	447	507	435	676	177	891	76
141	154	414	447	508	435	677	177	892	76
142	154	415	446	509	435	678	177	893	76
143	154	416	446	510	435	679	177	894	76
144	154	417	446	511	435	680	177	895	76
145	154	418	447	512	435	681	177	896	76
153	355	419	447	513	435	682	177	897	76
154	355	420	447	514	435	683	177	898	76
156	355	421	447	515	435	684	177	899	76
157	355	422	447	516	435	685	177	900	76
179	64	423	447	517	435	686	177	901	76
206½	339	424	447	518	435	687	177	902	76
207½	339	425	447	519	435	688	177	903	76
207½	339	426	447	520	435	689	177	904	76
208½	339	427	447	521	435	690	177	905	76
209½	339	428	447	522	435	691	177	906	76
210½	339	429	446	523	435	692	177	907	76
				524	435	693	177	908	76
				525	435	694	177	909	76
				526	435	695	177	910	76
				527	435	696	177	911	76
				528	435	697	177	912	76
				529	435	698	177	913	76
				530	435	699	177	914	76
				531	435	700	177	915	76
				532	435	701	177	916	76
				533	435	702	177	917	76
				534	435	703	177	918	76
				535	435	704	177	919	76
				536	435	705	177	920	76
				537	435	706	177	921	76
				538	435	707	177	922	76
				539	435	708	177	923	76
				540	435	709	177	924	76
				541	435	710	177	925	76
				542	435	711	177	926	76
				543	435	712	177	927	76
				544	435	713	177	928	76
				545	435	714	177	929	76
				546	435	715	177	930	76
				547	435	716	177	931	76
				548	435	717	177	932	76
				549	435	718	177	933	76
				550	435	719	177	934	76
				551	435	720	177	935	76
				552	435	721	177	936	76
				553	435	722	177	937	76
				554	435	723	177	938	76
				555	435	724	177	939	76
				556	435	725	177	940	76
				557	435	726	177	941	76
				558	435	727	177	942	76
				559	435	728	177	943	76
				560	435	729	177	944	76
				561	435	730	177	945	76
				562	435	731	177	946	76
				563	435	732	177	947	76
				564	435	733	177	948	76
				565	435	734	177	949	76
				566	435	735	177	950	76
				567	435	736	177	951	76
				568	435	737	177	952	76
				569	435	738	177	953	76
				570	435	739	177	954	76
				571	435	740	177	955	76
				572	435	741	177	956	76
				573	435	742	177	957	76
				574	435	743	177	958	76
				575	435	744	177	959	76
				576	435	745	177	960	76
				577	435	746	177	961	76
				578	435	747	177	962	76
				579	435	748	177	963	76
				580	435	749	177	964	76
				581	435	750	177	965	76
				582	435	751	177	966	76
				583	435	752	177	967	76
				584	435	753	177	968	76
				585	435	754	177	969	76
				586	435	755	177	970	76
				587	435	756	177	971	76
				588	435	757	177	972	76
				589	435	758	177	973	76
				590	435	759	177	974	76
				591	435	760	177	975	76
				592	435	761	177	976	76
				593	435	762	177	977	76
				594	435	763	177	978	76
				595	435	764	177	979	76
				596	435	765	177	980	76
				597	435	766	177	981	76
				598	435	767	177	982	76

WESTERN ELECTRIC COMPANY.

533

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
923	101	1085	110	1235	468	1421	345	1575	348
924	101	1086	110	1236	468	1422	345	1576	348
925	101	1087	110	1237	468	1423	354	1577	348
926	63	1088	202	1238	468	1424	354	1578	348
929	94	1089	252	1239	468	1425	354	1579	348
970	62	1090	110	1240	246	1427	354	1580	348
991	62	1091	110	1241	468	1428	354	1581	348
992	63	1092	252	1242	468	1429	354	1582	348
933	62	1093	252	1243	468	1430	345	1583	355
994	160	1094	252	1244	468	1431	345	1584	355
995	108	1101	110	1245	468	1432	345	1585	355
936	10	1102	110	1246	468	1433	345	1586	355
987	10	1103	110	1247	468	1434	345	1587	355
938	76	1104	110	1248	468	1435	345	1588	355
939	76	1105	110	1249	468	1436	354	1589	355
940	76	1106	110	1250	468	1437	354	1590	355
941	76	1107	110	1251	468	1438	354	1591	355
942	77	1108	375	1252	468	1440	354	1592	355
943	77	1109	377	1253	468	1441	354	1593	355
944	77	1110	110	1254	468	1442	354	1594	355
945	78	1111	110	1255	468	1443	345	1595	355
946	61	1115	158	1273	351	1444	345	1596	355
947	25	1116	158	1275	351	1445	345	1597	355
948	93	1117	158	1276	351	1446	345	1598	355
950	64	1118	159	1277	351	1447	345	1600	488
956	185	1119	159	1278	351	1448	345	1601	488
950	185	1120	159	1279	351	1449	349	1602	488
999	10	1121	111	1280	351	1450	349	1603	488
1000	10	1122	111	1316	355	1451	349	1604	488
1001	109	1123	111	1317	355	1452	349	1605	488
1002	109	1124	111	1318	355	1453	349	1606	488
1003	109	1125	111	1319	355	1454	349	1607	488
1004	109	1126	111	1320	79	1455	349	1608	488
1005	109	1127	159	1321	151	1456	349	1609	488
1006	109	1128	246	1322	151	1457	349	1610	488
1007	109	1129	246	1323	67	1458	349	1611	488
1008	109	1130	246	1324	67	1459	349	1612	488
1009	109	1131	111	1325	79	1460	349	1617	488
1010	109	1132	111	1326	79	1461	349	1619	488
1011	109	1133	111	1327	79	1462	349	1621	488
1012	109	1134	111	1328	79	1463	349	1624	488
1013	109	1135	111	1329	79	1464	349	1625	488
1014	109	1136	111	1330	79	1465	349	1626	488
1015	109	1137	246	1333	151	1466	349	1627	488
1016	109	1138	246	1334	151	1467	349	1628	488
1017	109	1139	246	1335	151	1468	349	1629	488
1018	109	1140	246	1336	151	1469	349	1630	488
1019	109	1141	111	1337	104	1470	349	1631	488
1021	109	1142	111	1338	353	1471	349	1632	488
1022	109	1143	111	1339	353	1472	349	1633	488
1023	109	1144	111	1340	353	1473	349	1634	488
1024	109	1145	111	1342	353	1474	349	1635	488
1025	109	1146	111	1343	353	1475	349	1637	488
1026	109	1151	111	1344	353	1476	349	1639	488
1027	109	1152	111	1345	353	1477	350	1641	488
1028	109	1153	111	1346	353	1478	350	1643	488
1029	109	1154	111	1348	353	1479	350	1645	488
1030	109	1155	111	1355	353	1480	350	1648	452
1031	109	1156	111	1356	353	1481	350	1650	485
1032	109	1157	438	1358	353	1482	350	1651	485
1033	109	1159	438	1359	353	1483	350	1652	485
1034	109	1161	438	1360	353	1484	350	1653	485
1035	109	1164	393	1361	353	1485	350	1654	485
1036	109	1165	393	1369	354	1486	350	1655	485
1037	109	1166	393	1370	354	1487	350	1656	485
1038	109	1167	393	1371	354	1488	350	1657	485
1039	109	1168	393	1373	354	1489	350	1658	485
1041	110	1169	469	1374	354	1490	350	1659	485
1042	110	1170	469	1375	354	1491	350	1660	485
1043	110	1171	469	1376	354	1492	350	1661	485
1044	110	1172	469	1384	354	1493	350	1662	485
1045	110	1173	469	1385	354	1494	350	1663	485
1046	110	1174	469	1387	354	1495	350	1664	485
1047	110	1176	457	1388	354	1496	350	1665	485
1048	110	1177	457	1389	354	1497	350	1666	485
1049	110	1178	241	1390	354	1498	350	1667	485
1050	110	1179	241	1397	354	1499	350	1668	485
1051	110	1180	242	1398	354	1500	350	1669	485
1052	110	1183	242	1399	354	1501	350	1670	485
1053	110	1184	243	1401	351	1502	350	1671	485
1061	110	1185	250	1402	354	1503	350	1672	485
1062	110	1187	250	1403	354	1504	350	1673	485
1063	110	1188	250	1404	345	1505	350	1674	485
1064	110	1189	250	1405	345	1506	350	1675	485
1065	110	1190	250	1406	345	1507	351	1676	485
1066	110	1193	242	1407	345	1508	351	1677	485
1067	110	1194	242	1408	345	1509	351	1678	485
1068	110	1195	242	1409	345	1510	351	1679	485
1069	110	1196	242	1410	351	1511	351	1680	485
1070	110	1197	242	1411	351	1512	351	1681	485
1071	110	1198	242	1412	351	1513	351	1682	485
1072	110	1199	242	1414	351	1514	351	1683	485
1073	110	1229	468	1415	351	1515	351	1684	485
1080	251	1230	468	1416	354	1516	351	1685	485
1081	110	1231	468	1417	345	1517	345	1686	485
1082	110	1232	468	1418	345	1518	351	1687	485
1083	110	1233	468	1419	345	1573	348	1688	485
1084	110	1234	468	1420	345	1574	348	1689	485

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
1690	485	1837	153	1944	251	2107	249	2222	25
1691	485	1838	153	1945	251	2108	249	2223	25
1692	485	1839	153	1946	251	2109	249	2229	13
1693	485	1840	153	1947	251	2110	249	2230	13
1694	485	1841	153	1948	94	2111	245	2235	267
1695	485	1842	153	1949	95	2112	249	2260	268
1696	485	1843	153	1950	473	2113	249	2261	268
1697	485	1844	153	1951	473	2114	249	2265	267
1698	485	1845	10	1952	473	2115	249	2281	240
1699	485	1846	10	1953	473	2116	245	2282	240
1700	483	1847	10	1954	473	2117	245	2283	240
1701	483	1848	10	1955	473	2118	249	2284	240
1702	483	1849	153	1956	473	2119	249	2285	240
1703	483	1850	153	1957	473	2120	245	2286	240
1704	483	1851	151	1958	473	2120½	246	2287	240
1705	483	1852	151	1959	473	2121	245	2288	240
1706	483	1853	151	1960	473	2121½	246	2289	240
1707	483	1854	151	1961	473	2122	245	2290	240
1708	483	1855	151	1962	473	2123	245	2291	240
1709	483	1857	437	1963	473	2124	246	2292	240
1710	483	1858	437	1964	473	2125	245	2293	240
1711	483	1857	101	1965	473	2126	245	2294	240
1712	483	1868	93	1966	473	2127	246	2295	257
1713	483	1869	469	1967	473	2130	246	2296	257
1714	483	1870	469	1968	473	2131	246	2297	257
1715	483	1871	469	1969	473	2132	246	2298	257
1716	483	1872	469	1970	473	2133	246	2299	257
1717	483	1873	469	1971	473	2134	246	2300	64
1718	483	1874	469	1972	473	2135	246	2301	64
1719	483	1875	469	1973	473	2136	246	2302	65
1720	483	1876	469	1974	473	2137	246	2303	65
1721	484	1877	469	1975	473	2138	246	2304	257
1722	484	1878	469	1976	473	2139	246	2305	257
1723	484	1879	469	1977	473	2140	246	2306	257
1724	484	1880	469	1978	473	2141	246	2307	257
1725	484	1881	469	1979	473	2142	246	2307½	257
1726	484	1882	469	1980	473	2143	246	2308	257
1727	484	1883	469	1981	473	2144	246	2309	258
1728	484	1884	469	1982	473	2145	246	2310	258
1729	484	1885	469	1983	473	2146	246	2311	258
1730	484	1886	469	1984	473	2147	246	2312	258
1731	484	1887	469	1985	473	2148	246	2313	258
1732	484	1888	469	1986	473	2149	246	2314	258
1733	484	1889	472	1987	473	2150	246	2315	258
1734	484	1890	472	1988	473	2151	246	2316	258
1735	484	1891	472	1989	473	2152	246	2317	258
1736	484	1892	472	1990	473	2153	246	2318	258
1737	484	1893	472	1991	473	2154	246	2319	258
1738	484	1894	472	1992	473	2155	246	2320	258
1739	484	1895	472	1993	473	2156	246	2321	258
1740	484	1896	472	1994	473	2157	246	2322	258
1741	484	1897	472	1995	473	2158	246	2323	258
1742	482	1898	472	1996	473	2159	246	2324	258
1743	482	1899	472	1997	473	2160	246	2325	258
1744	482	1900	472	1998	473	2161	246	2326	258
1745	482	1901	472	1999	473	2162	246	2327	258
1746	482	1902	472	2000	473	2163	246	2328	258
1747	482	1903	472	2001	473	2164	246	2329	258
1748	306	1904	472	2002	473	2165	247	2330	258
1749	306	1905	472	2003	473	2166	247	2331	258
1750	306	1906	472	2004	473	2167	248	2332	419
1751	306	1907	472	2005	473	2168	248	2333	419
1752	306	1908	472	2006	473	2169	248	2334	419
1753	306	1909	472	2007	473	2170	248	2335	419
1804	152	1910	472	2008	473	2171	248	2336	419
1805	152	1911	472	2009	473	2172	248	2337	419
1806	152	1912	472	2010	473	2173	248	2338	419
1807	152	1913	472	2011	473	2174	248	2339	419
1808	152	1914	472	2012	473	2175	248	2340	419
1809	152	1915	472	2013	473	2176	248	2341	419
1810	152	1916	472	2014	473	2177	248	2342	419
1811	152	1917	472	2015	473	2178	248	2343	419
1812	152	1918	472	2016	473	2179	248	2344	419
1813	152	1919	472	2017	473	2180	248	2345	419
1813½	153	1920	472	2018	473	2181	248	2346	419
1814	153	1921	93	2019	473	2182	248	2347	419
1815	153	1922	96	2020	473	2183	248	2348	419
1816	153	1923	425	2021	473	2184	248	2349	419
1817	153	1924	427	2022	473	2185	248	2350	419
1818	153	1925	427	2023	473	2186	248	2351	419
1819	153	1926	428	2024	473	2187	248	2352	419
1820	153	1927	428	2025	473	2188	248	2353	419
1821	153	1928	428	2026	473	2189	248	2354	419
1822	153	1929	428	2027	473	2190	248	2355	419
1823	153	1930	428	2028	473	2191	248	2356	419
1824	153	1931	428	2029	473	2192	248	2357	419
1825	153	1932	428	2030	473	2193	248	2358	419
1826	153	1933	428	2031	473	2194	248	2359	419
1827	153	1934	428	2032	473	2195	248	2360	419
1828	153	1935	428	2033	473	2196	248	2361	419
1829	153	1936	428	2034	473	2197	248	2362	419
1830	153	1937	428	2035	473	2198	248	2363	419
1831	153	1938	428	2036	473	2199	248	2364	419
1832	153	1939	428	2037	473	2200	248	2365	419
1833	153	1940	250	2038	473	2201	248	2366	419
1834	153	1941	250	2039	473	2202	248	2367	419
1835	153	1942	250	2040	473	2203	248	2368	419
1836	153	1943	250	2041	473	2204	248	2369	419
1837	153	1944	250	2042	473	2205	248	2370	419
1838	153	1945	250	2043	473	2206	248	2371	419
1839	153	1946	250	2044	473	2207	248	2372	419
1840	153	1947	250	2045	473	2208	248	2373	419
1841	153	1948	250	2046	473	2209	248	2374	419
1842	153	1949	250	2047	473	2210	248	2375	419
1843	153	1950	250	2048	473	2211	248	2376	419
1844	153	1951	250	2049	473	2212	248	2377	419
1845	153	1952	250	2050	473	2213	248	2378	419
1846	153	1953	250	2051	473	2214	248	2379	419
1847	153	1954	250	2052	473	2215	248	2380	419
1848	153	1955	250	2053	473	2216	248	2381	419
1849	153	1956	250	2054	473	2217	248	2382	419
1850	153	1957	250	2055	473	2218	248	2383	419
1851	153	1958	250	2056	473	2219	248	2384	419
1852	153	1959	250	2057	473	2220	248	2385	419
1853	153	1960	250	2058	473	2221	248	2386	419
1854	153	1961	250	2059	473	2222	248	2387	419
1855	153	1962	250	2060	473	2223	248	2388	419
1856	153	1963	250	2061	473	2224	248	2389	419
1857	153	1964	250	2062	473	2225	248	2390	419
1858	153	1965	250	2063	473	2226	248	2391	419
1859	153	1966	250	2064	473	2227	248	2392	419
1860	153	1967	250	2065	473	2228	248	2393	419
1861	153	1968	250	2066	473	2229	248	2394	419
1862	153	1969	250	2067	473	2230	248	2395	419
1863	153	1970	250	2068	473	2231	248	2396	419
1864	153	1971	250	2069	473	2232	248	2397	419
1865	153	1972	250	2070	473	2233	248	2398	419
1866	153	1973	250	2071	473	2234	248	2399	419
1867	153	1974	250	2072	473	2235	248	2400	419
1868	153	1975	250	2073	473	2236	248	2401	419
1869	153	1976	250	2074	473	2237	248	2402	419
1870	153	1977	250	2075	473	2238	248	2403	419
1871	153	1978	250	2076	473	2239	248	2404	419
1872	153	1979	250	2077	473	2240	248	2405	419
1873	153	1980	250	2078	473	2241	248	2406	419
1874	153	1981	250	2079	473	2242	248		

WESTERN ELECTRIC COMPANY.

535

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
2375	231	2598	244	2735	223	2850	163	3034	467
2376	281	2599	244	2736	223	2851	163	3035	467
2377	281	2600	244	2737	224	2852	183	3036	467
2378	281	2601	244	2738	224	2853	434	3037	467
2379	281	2602	244	2739	224	2854	434	3038	467
2380	289	2603	244	2740	224	2855	434	3040	248
2381	289	2604	244	2741	224	2856	434	3041	248
2382	289	2605	244	2742	224	2857	434	3042	271
2383	289	2606	244	2743	226	2858	435	3043	248
2384	289	2607	244	2744	226	2859	435	3044	248
2385	289	2608	244	2745	226	2860	435	3045	241
2386	281	2609	241	2746	226	2861	435	3046	241
2388	406	2610	241	2747	226	2862	435	3047	243
2389	406	2611	241	2748	226	2863	383	3048	243
2390	406	2612	241	2749	226	2864	435	3050	270
2394	61	2613	251	2750	226	2865	435	3051	250
2395	61	2614	251	2751	226	2866	435	3052	249
2396	436	2615	254	2752	226	2867	101	3053	489
2397	436	2616	254	2753	226	2868	434	3054	489
2398	436	2617	254	2754	226	2869	383	3055	489
2399	436	2618	254	2755	226	2870	383	3056	489
2400	436	2619	254	2756	226	2871	383	3057	489
2401	436	2620	254	2757	226	2872	383	3058	489
2402	436	2621	254	2758	226	2873	383	3059	489
2403	436	2622	254	2759	226	2874	383	3060	489
2404	436	2623	254	2760	227	2875	383	3061	489
2405	79	2624	254	2761	227	2876	383	3062	489
2406	79	2625	255	2762	227	2877	383	3065	489
2407	79	2626	255	2763	227	2878	383	3067	245
2408	79	2627	255	2764	227	2879	383	3067 1/2	246
2409	80	2628	255	2765	227	2880	383	3068	245
2015	386	2629	257	2766	227	2881	383	3068 1/2	245
2516	386	2630	257	2767	227	2882	383	3069 1/2	246
2517	386	2631	257	2768	227	2883	383	3071	245
2518	386	2632	255	2769	227	2884	383	3073	245
2520	387	2633	255	2770	227	2885	383	3074	245
2521	387	2634	255	2771	227	2886	168	3075	275
2523	382	2635	255	2772	227	2887	168	3076	245
2524	379	2640	253	2773	227	2888	168	3077	245
2525	379	2641	253	2774	227	2889	168	3078	245
2526	379	2642	253	2775	227	2913	386	3079	246
2527	400	2671	451	2776	227	2914	386	3080	246
2528	400	2672	451	2777	224	2915	386	3081	251
2534	377	2673	386	2778	224	2916	386	3082	252
2542	379	2674	386	2779	228	2917	386	3083	252
2543	376	2675	386	2779	223	2918	386	3084	252
2544	376	2676	386	2780	223	2919	386	3085	252
2545	376	2678	251	2781	223	2920	386	3092	489
2546	376	2680	384	2782	237	2921	94	3093	489
2547	377	2681	384	2783	237	2922	437	3104	467
2548	377	2682	384	2784	237	2924	437	3105	467
2549	377	2683	384	2785	237	2925	437	3106	467
2550	406	2688	384	2786	237	2926	108	3107	467
2551	406	2689	384	2787	237	2927	103	3108	467
2552	406	2690	384	2792	225	2931	437	3109	467
2553	406	2690 1/2	384	2793	225	2932	437	3110	467
2554	383	2691	384	2794	226	2933	437	3111	467
2555	383	2694	166	2795	450	2934	437	3112	467
2556	383	2695	489	2796	450	2935	467	3113	467
2557	383	2696	489	2797	225	2944	386	3114	467
2558	383	2697	489	2798	225	2945	386	3115	467
2559	383	2698	489	2799	226	2946	386	3116	467
2560	383	2700	290	2800	290	2947	386	3117	467
2561	383	2701	290	2801	237	3000	452	3118	467
2562	383	2702	207	2803	239	3000 1/2	466	3119	467
2563	383	2703	207	2804	239	3001	466	3120	467
2564	383	2704	207	2806	239	3002	466	3122	467
2566	432	2705	207	2807	239	3003	466	3123	467
2567	432	2706	207	2808	239	3004	466	3124	467
2568	432	2707	207	2809	239	3005	466	3125	467
2569	432	2708	207	2820	365	3006	466	3126	467
2570	432	2709	207	2821	365	3007	466	3127	467
2571	432	2710	207	2822	365	3008	466	3128	467
2572	432	2711	207	2823	365	3009	466	3129	467
2573	432	2712	207	2824	365	3010	466	3130	467
2574	432	2713	207	2825	365	3011	466	3131	467
2575	426	2714	207	2826	365	3012	466	3132	468
2576	80	2715	207	2827	365	3013	466	3133	468
2577	80	2716	207	2828	365	3014	466	3134	468
2578	80	2717	207	2829	365	3015	466	3135	468
2579	80	2718	207	2830	365	3016	466	3136	468
2580	80	2719	207	2831	365	3017	466	3137	468
2581	80	2720	207	2832	365	3018	466	3138	468
2582	80	2721	207	2833	365	3019	466	3139	468
2583	80	2722	207	2834	365	3020	466	3140	468
2584	80	2723	207	2835	365	3021	466	3141	468
2585	80	2724	207	2836	365	3022	466	3142	468
2586	80	2725	207	2837	365	3023	466	3143	468
2587	80	2726	207	2838	365	3024	466	3144	468
2588	80	2727	207	2839	365	3025	466	3145	468
2589	80	2728	207	2840	365	3026	466	3146	468
2590	80	2729	207	2841	365	3027	466	3147	468
2591	80	2729 1/2	208	2843	179	3028	467	3148	468
2592	80	2730	208	2845	10	3029	467	3149	468
2593	243	2731	208	2846	10	3030	467	3150	468
2595	243	2732	208	2847	10	3031	467	3151	470
2596	243	2733	223	2848	190	3032	467	3159	470
2597	214	2734	223	2849	190	3033	467	3160	470

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
3161	470	3373	240	3608	83	3819	444	3929	856
3162	470	3374	240	3609	83	3820	444	3930	856
3163	470	3375	240	3610	432	3821	444	3931	356
3164	470	3376	240	3618	106	3822	444	3948	93
3165	470	3377	240	3619	106	3823	444	3956	484
3166	470	3378	240	3622	374	3824	444	3957	489
3167	470	3379	240	3623	407	3825	444	3958	489
3168	470	3380	240	3630	103	3832	397	3959	489
3169	470	3381	240	3631	103	3833	397	3960	489
3170	470	3382	240	3632	103	3834	415	3961	489
3171	470	3383	240	3633	103	3835	415	3962	489
3172	470	3383½	89	3634	103-106	3836	444	3963	489
3173	470	3384	89	3635	103-106	3837	444	3964	489
3174	470	3394	451	3636	103	3838	415	3965	489
3175	470	3415	438	3637	103	3839	415	3966	489
3176	471	3416	438	3638	407	3840	415	3967	489
3177	471	3417	438	3639	407	3841	415	3968	489
3178	471	3418	438	3640	407	3842	415	3969	489
3179	471	3419	438	3641	407	3843	415	3971	353
3180	471	3420	438	3642	407	3844	416	3972	353
3181	471	3421	438	3643	407	3845	416	3973	353
3182	471	3446	270	3644	407	3846	416	3974	353
3183	471	3450	415	3645	407	3847	416	3975	353
3184	471	3451	415	3646	407	3848	416	3976	353
3185	471	3452	415	3647	407	3849	416	3977	353
3186	471	3453	415	3654	104	3850	416	3978	353
3187	471	3454	414	3663	382	3851	416	3979	353
3188	471	3455	414	3664	382	3852	416	3980	353
3189	471	3456	414	3665	382	3853	416	3981	344
3190	471	3457	104	3667	382	3854	416	3982	344
3191	471	3458	425	3668	382	3855	416	3983	344
3192	471	3460	425	3669	382	3856	416	3984	344
3193	471	3462	425	3673	272	3857	416	3985	344
3194	471	3464	426	3674	273	3858	416	3986	344
3195	471	3466	426	3677	2859	3859	416	3987	344
3196	471	3468	427	3678	286	3860	416	3988	344
3197	106	3470	428	3679	256	3861	416	3989	344
3198	106	3471	444	3680	270	3862	416	3990	412
3201	89	3473	444	3681	270	3863	416	4504	87
3202	89	3474	444	3682	270	3864	416	4505	86
3203	89	3475	411	3683	256	3865	416	4506	86
3204	89	3476	411	3684	256	3866	416	4575	201
3205	401	3477	411	3685	257	3867	416	5559	104
3206	401	3478	411	3686	256	3868	402	6000	98
3207	401	3479	411	3687	266	3869	374	6001	98
3211	470	3480	411	3787½	375	3870	374	6538	262
3212	470	3481	411	3688	411	3872	375	6539	262
3213	470	3482	411	3689½	375	3873	375	6540	261
3214	470	3483	411	3689	266	3880	483	6541	261
3215	470	3484	411	3689½	374	3881	483	6542	261
3216	470	3485	411	3690	266	3882	483	6543	262
3217	470	3486	411	3690½	374	3883	483	6543	261
3218	470	3487	411	3691	266	3884	483	6544	261
3219	470	3488	411	3692	266	3885	483	6545	262
3220	470	3489	288	3693	266	3886	483	6556	262
3221	470	3490	288	3693½	375	3887	483	6556½	262
3222	470	3491	288	3694	266	3888	483	6557	262
3223	470	3492	288	3694½	375	3889	483	6558	262
3224	470	3493	288	3695	266	3890	483	6558½	262
3225	470	3494	377	3695½	375	3891	483	6559	262
3226	470	3495	377	3696½	375	3892	483	6560	262
3227	470	3496	387	3697	266	3893	483	6560½	262
3228	470	3497	387	3698	266	3894	483	6561	262
3229	471	3498	387	3700	270	3895	483	6562	262
3230	471	3499	337	3705	377	3896	483	6562½	262
3231	471	3500	387	3706	377	3897	483	6563	261
3232	471	3501	387	3719	419	3898	483	6565	261
3233	471	3507	406	3728	89	3899	483	6566	261
3234	471	3508	406	3730	89	3900	483	6567	261
3235	471	3509	406	3731	407	3901	483	6567½	261
3236	471	3510	406	3732	407	3902	484	6568	261
3237	471	3511	406	3733	407	3903	484	6569	261
3238	471	3512	406	3780	374	3904	484	6569½	261
3239	471	3513	401	3781	374	3905	484	6570	261
3240	471	3514	401	3782	374	3906	484	6570½	261
3241	471	3515	401	3783	374	3907	484	6571	261
3242	471	3516	401	3787	397	3908	484	6572	261
3243	471	3517	401	3788	397	3909	483	6572½	262
3244	471	3518	401	3789	397	3909½	484	6573	262
3245	471	3519	401	3790	384	3910	484	6574	262
3246	471	3520	401	3791	384	3911	484	6575	262
3247	471	3521	401	3792	384	3912	484	6576	262
3248	471	3527	397	3794	383	3913	484	6577	262
3249	411	3528	457	3795	383	3914	484	6577½	262
3250	411	3529	457	3796	383	3915	484	6580	431
3251	411	3530	457	3797	383	3916	484	6581	431
3252	411	3531	457	3798	383	3917	484	6582	431
3253	411	3532	457	3799	383	3918	484	6583	431
3254	411	3533	457	3800	383	3919	484	6584	431
3255	411	3534	457	3801	383	3920	484	6585	431
3256	411	3535	457	3802	383	3921	484	6586	431
3257	411	3536	457	3803	106	3922	484	6587	431
3258	401	3537	457	3804	106	3923	484	6588	431
3259	401	3538	457	3814	438	3924	484	6589	431
3260	401	3539	457	3815	438	3925	484	6590	431
3261	412	3540	104	3816	444	3926	484	6591	431
3262	412	3541	104	3817	444	3927	484	6592	431
3263	412	3542	104	3818	444	3928	484	6593	431

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
6720	323	6254 1/2	261	8078	43	8176	45	8274	41
6721	323	6255	261	8079	43	8177	45	8275	41
6722	323	6264	261	8080	43	8178	45	8276	41
6723	323	6264 1/2	261	8081	43	8179	45	8277	41
6724	323	6265	261	8082	43	8180	45	8278	41
6725	323	6265 1/2	261	8083	43	8181	45	8279	41
6726	322	6266	261	8084	44	8182	45	8280	41
6729	322	6266 1/2	262	8085	44	8183	45	8281	41
6730	322	6267	261	8086	44	8184	45	8282	41
6731	322	6267 1/2	261	8087	44	8185	45	8283	41
6732	322	6267 1/2	262	8088	44	8186	45	8284	41
6734	261	6268	261	8089	44	8187	45	8285	41
6735	261	6268 1/2	261	8090	44	8188	45	8286	41
6736	322	6269	261	8091	44	8189	45	8287	41
6737	322	6270	261	8092	44	8190	45	8288	41
6738	322	6270 1/2	262	8093	44	8191	45	8289	41
6739	322	6271	262	8094	44	8192	45	8290	41
6740	322	6271 1/2	262	8095	44	8193	45	8291	41
6741	322	6271 1/2	262	8096	44	8194	45	8292	41
6742	322	6272	262	8097	44	8195	45	8293	41
6743	322	8000	41	8098	44	8196	45	8294	41
6744	322	8001	41	8099	44	8197	45	8295	41
6745	322	8002	41	8100	44	8198	45	8296	41
6746	322	8003	41	8101	44	8199	45	8297	41
6747	322	8004	41	8102	44	8200	45	8298	41
6748	322	8005	41	8103	44	8201	45	8299	41
6749	322	8006	41	8104	44	8202	45	8300	41
6750	322	8007	41	8105	44	8203	45	8301	41
6751	322	8008	41	8106	44	8204	45	8302	41
6752	322	8009	41	8107	44	8205	45	8303	41
6753	322	8010	42	8108	44	8206	45	8304	41
6754	322	8011	42	8109	44	8207	45	8305	41
6755	322	8012	42	8110	44	8208	45	8306	41
6756	322	8013	42	8111	44	8209	45	8307	41
6757	322	8014	42	8112	44	8210	45	8308	41
6758	322	8015	42	8113	44	8211	45	8309	41
6759	322	8016	42	8114	44	8212	45	8310	41
6760	322	8017	42	8115	44	8213	45	8311	41
6761	322	8018	42	8116	44	8214	45	8312	41
6762	322	8019	42	8117	44	8215	45	8313	41
6763	322	8020	42	8118	44	8216	45	8314	41
6764	322	8021	42	8119	44	8217	45	8315	41
6765	322	8022	42	8120	44	8218	45	8316	41
6766	322	8023	42	8121	44	8219	45	8317	41
6767	322	8024	42	8122	44	8220	45	8318	41
6768	322	8025	42	8123	44	8221	45	8319	41
6769	322	8026	42	8124	43	8222	45	8320	41
6770	322	8027	42	8125	43	8223	45	8321	41
6771	322	8028	42	8126	43	8224	45	8322	41
6772	322	8029	42	8127	43	8225	45	8323	41
6773	322	8030	42	8128	43	8226	45	8324	41
6774	322	8031	42	8129	43	8227	45	8325	41
6775	322	8032	42	8130	43	8228	45	8326	41
6776	322	8033	42	8131	43	8229	45	8327	41
6777	322	8034	42	8132	43	8230	45	8328	41
6778	322	8035	42	8133	43	8231	45	8329	41
6779	322	8036	42	8134	43	8232	45	8330	41
6780	322	8037	42	8135	43	8233	45	8331	41
6781	322	8038	42	8136	43	8234	45	8332	41
6782	322	8039	42	8137	43	8235	45	8333	41
6783	322	8040	42	8138	43	8236	45	8334	41
6784	322	8041	42	8139	43	8237	45	8335	41
6785	322	8042	42	8140	43	8238	45	8336	41
6786	322	8043	42	8141	43	8239	45	8337	41
6787	322	8044	42	8142	43	8240	45	8338	41
6788	322	8045	42	8143	43	8241	45	8339	41
6789	322	8046	42	8144	43	8242	45	8340	41
6790	322	8047	42	8145	43	8243	45	8341	41
6791	322	8048	42	8146	43	8244	45	8342	41
6792	322	8049	42	8147	43	8245	45	8343	41
6793	322	8050	42	8148	43	8246	45	8344	41
6794	322	8051	43	8149	43	8247	45	8345	41
6795	322	8052	43	8150	43	8248	45	8346	41
6796	322	8053	43	8151	43	8249	45	8347	41
6797	322	8054	43	8152	43	8250	45	8348	41
6798	322	8055	43	8153	43	8251	45	8349	41
6799	322	8056	43	8154	43	8252	45	8350	41
6800	322	8057	43	8155	43	8253	45	8351	41
6801	322	8058	43	8156	43	8254	45	8352	41
6802	322	8059	43	8157	43	8255	45	8353	41
6803	322	8060	43	8158	43	8256	45	8354	41
6804	322	8061	43	8159	43	8257	45	8355	41
6805	322	8062	43	8160	43	8258	45	8356	41
6806	322	8063	43	8161	43	8259	45	8357	41
6807	322	8064	43	8162	43	8260	45	8358	41
6808	322	8065	43	8163	43	8261	45	8359	41
6809	322	8066	43	8164	43	8262	45	8360	41
6810	322	8067	43	8165	43	8263	45	8361	41
6811	322	8068	43	8166	43	8264	45	8362	41
6812	322	8069	43	8167	43	8265	45	8363	41
6813	322	8070	43	8168	43	8266	45	8364	41
6814	322	8071	43	8169	43	8267	45	8365	41
6815	322	8072	43	8170	43	8268	45	8366	41
6816	322	8073	43	8171	43	8269	45	8367	41
6817	322	8074	43	8172	43	8270	45	8368	41
6818	322	8075	43	8173	43	8271	45	8369	41
6819	322	8076	43	8174	43	8272	45	8370	41
6820	322	8077	43	8175	43	8273	45	8371	41

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
8405	48	8552	51	8708	165	8858	211	9121	205
8406	48	8553	51	8709	165	8859	211	9120	205
8408	48	8555	51	8710	165	8860	211	9129	205
8409	48	8556	51	8711	165	8861	211	9132	206
8411	48	8558	51	8712	208	8862	211	9133	206
8412	48	8559	51	8713	165	8863	211	9134	204
8414	48	8561	51	8717	165	8864	211	9135	204
8415	48	8562	52	8720	272	8865	211	9136	204
8417	48	8564	52	8723	106	8866	211	9137	204
8418	48	8565	52	8724	106	8867	211	9138	205
8420	48	8567	52	8725	175	8868	211	9140	203
8421	48	8568	52	8726 ^{1/2}	239	8869	211	9141	203
8423	48	8570	52	8726	175	8870	211	9164	16
8424	48	8571	52	8729 ^{1/2}	412	8871	211	9200	422
8426	48	8573	52	8727	412	8872	211	9206	432
8427	48	8574	52	8728	412	8873	211	9209	292
8429	48	8576	52	8729	412	8874	211	9293	291
8430	48	8577	52	8730	412	8875	211	9301	434
8432	48	8579	52	8731	224	8876	211	9308	422
8433	48	8580	52	8732	224	8877	211	9315	422
8435	48	8582	52	8734	224	8878	208	9319	86
8436	48	8583	52	8735	224	8881	412	9327	442
8438	49	8585	52	8736	224	8882	201	9358	291
8439	49	8586	52	8737	225	8883	201	9378	14
8441	49	8588	52	8738	225	8889	444	9379	14
8442	49	8589	52	8740	225	8890	444	9380	14
8444	49	8591	52	8741	225	8901	444	9381	14
8445	49	8592	52	8742	423	8902	444	9382	14
8447	49	8594	52	8743	407	8903	444	9383	14
8448	49	8595	52	8747	225	8904	444	9383 ^{1/2}	232
8450	49	8597	52	8748	225	8905	444	9384	201
8451	49	8598	53	8749	487	8906	444	9386	201
8453	49	8599	53	8750	487	8907	431	9387	201
8454	49	8600	53	8751	487	8908	431	9388	201
8456	49	8601	53	8752	487	8909	431	9389	201
8457	49	8602	53	8753	487	8910	431	9391	201
8459	49	8603	53	8755	209	8913	201	9392	292
8460	49	8604	53	8756	209	8956	464	9393	292
8462	49	8605	53	8757	209	8957	464	9394	292
8463	49	8606	53	8758	210	8958	464	9395	292
8465	49	8607	53	8759	210	8959	464	9400	84
8466	49	8608	53	8760	210	8960	464	9400 ^{1/2}	247
8468	49	8609	53	8771	208	8970	465	9401	247
8469	49	8610	53	8772	208	8972	465	9402 ^{1/2}	247
8471	49	8611	53	8773	208	8973	465	9403	247
8472	50	8612	53	8781	381	8974	151	9404	247
8474	50	8613	53	8789	381	8975	151	9405	247
8475	50	8624	400	8790	111	8976	151	9406	247
8477	50	8625	400	8791	111	8977	152	9407	247
8478	50	8626	400	8792	111	8978	152	9408	247
8480	50	8627	400	8793	111	8979	152	9410	247
8481	50	8632	385	8794	111	8980	151	9411	247
8483	50	8633	385	8795	111	8981	152	9412	247
8484	50	8634	385	8796	111	8982	152	9413	247
8486	50	8635	385	8797	111	8983	108	9414	247
8487	50	8636	462	8798	111	8984	108	9415	247
8489	50	8637	462	8799	111	8985	108	9416	247
8490	50	8638	462	8800	111	8986	108	9417	247
8492	50	8639	462	8801	441	8987	108	9418	247
8493	50	8640	458	8802	184	8988	108	9419	247
8495	50	8641	458	8803	184	8989	108	9419	247
8496	50	8642	460	8804	184	8990 ^{1/2}	442	9420 ^{1/2}	460
8498	50	8643	460	8805	185	8990	108	9500	292
8499	50	8646	460	8806	185	8992	461	9531	292
8501	50	8647	460	8807	185	8993	461	9532	292
8502	50	8648	460	8808	186	8994	461	9533	292
8504	50	8649	465	8809	186	8995	461	9537	293
8505	50	8650	466	8810	186	8996	461	9538	293
8507	50	8651	466	8811	186	8997	461	9539	293
8508	50	8652	465	8815	199	8998	442	9540	293
8509	50	8653	465	8816	199	9001	270	9542	293
8511	50	8654	465	8817	199	9003	270	9543	293
8513	50	8655	465	8818	199	9005	462	9544	293
8514	50	8656	465	8819	199	9006	462	9545	293
8516	50	8657	459	8820	203	9007	462	9547	293
8517	50	8658	459	8821	203	9008	462	9548	293
8519	51	8659	459	8822	203	9009	463	9549	293
8520	51	8660	459	8823	203	9070	468	9550	293
8522	51	8661	459	8824	204	9071	468	9551	293
8523	51	8662	459	8825	209	9072	463	9553	294
8525	51	8663	460	8826	210	9073	487	9554	294
8526	51	8677	107	8827	210	9074	487	9555	294
8528	51	8678	107	8828	210	9075	487	9557	294
8529	51	8679	107	8829	210	9076	487	9558	294
8531	51	8680	107	8830	98	9077	487	9559	294
8532	51	8681	107	8836	98	9078	487	9560	294
8534	51	8682	107	8837	98	9107	291	9562	294
8535	51	8683	107	8839	98	9118	291	9563	294
8537	51	8684	107	8840	98	9119	291	9564	294
8538	51	8689	280	8842	98	9120	203	9565	294
8540	51	8691	105	8843	98	9121	200	9568	292
8541	51	8692	105	8845	98	9122	202	9569	292
8543	51	8701	408	8846	98	9123	202	9570	292
8544	51	8703	181	8848	98	9124	202	9571	292
8546	51	8704	186	8849	98	9125	202	9574	292
8547	51	8705	164	8851	163	9126	204	9583	292
8549	51	8706	164	8852	163	9127	206	13210	409
8550	51	8707	164	8857	211	9128	206	13211	409

WESTERN ELECTRIC COMPANY.

539

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
13212	409	14917	374	15103	394	15493	457	20015	12
13213	409	14918	374	15105	397	15800	491	20017	12
13214	409	14920	374	15166	397	15801	491	20018	12
13215	409	14921	374	15170	397	15802	491	20020	13
13216	409	14923	374	15175	397	15804	491	20021	13
13217	409	14925	375	15180	398	15805	491	20022	13
13218	409	14926	375	15181	398	15810	491	20023	13
13219	409	14927	375	15182	398	15811	491	20024	13
13220	409	14928	375	15183	398	15812	491	20025	13
13221	409	14929	375	15185	398	15813	491	20026	13
13222	409	14930	375	15186	398	15818	491	20027	13
13223	409	14931	375	15187	398	15821	491	20028	13
13224	409	14932	375	15190	398	15822	491	20029	13
13225	409	14933	375	15191	398	15823	491	20030	66
13226	409	14935	377	15192	398	15824	491	20040	33
13227	409	14936	377	15193	398	15825	491	20041	33
13235	409	14937	377	15195	398	15830	491	20042	33
13236	409	14938	377	15200	399	15831	491	20043	33
13237	409	14940	377	15201	399	15835	491	20044	33
13238	409	14941	377	15202	399	15836	491	20045	33
13239	409	14942	377	15205	399	15837	491	20046	33
13240	409	14945	378	15206	399	15838	491	20047	33
13241	409	14946	378	15207	399	15840	491	20048	33
13242	409	15005	373	15210	399	15841	491	20049	33
13243	409	15007	373	15211	399	15842	491	20050	34
13244	409	15010	373	15212	399	15843	491	20051	34
13245	409	15011	373	15213	399	15845	492	20052	34
13246	409	15012	373	15215	399	15846	492	20053	32
13247	409	15015	376	15216	399	15847	492	20054	32
13250	410	15018	378	15220	402	15848	492	20055	32
13251	410	15020	378	15222	402	15849	492	20056	32
13252	410	15021	378	15225	402	15850	492	20057	32
13253	410	15025	379	15230	402	15851	492	20058	32
13254	410	15026	379	15235	406	15852	492	20059	32
13255	410	15030	381	15300	420	15853	492	20060	32
13256	410	15031	381	15301	420	15860	492	20061	32
13257	410	15032	381	15302	420	15861	492	20062	32
13258	410	15033	381	15305	420	15862	492	20063	32
13259	410	15035	381	15308	421	15863	492	20064	32
13271	410	15040	382	15310	421	15864	492	20065	32
13272	410	15041	382	15312	421	15865	492	20066	26
13273	410	15042	382	15325	439	15866	492	20067	26
13274	410	15043	382	15416	449	15867	492	20068	26
13275	410	15045	382	15417	449	15868	492	20069	26
13276	410	15046	382	15418	449	15869	492	20070	26
13277	410	15047	382	15420	450	15870	492	20071	26
13278	410	15050	382	15421	450	15871	492	20072	26
13279	410	15052	382	15422	450	15872	492	20073	26
13280	410	15055	382	15423	450	15875	493	20074	27
13281	410	15056	382	15425	450	15876	493	20075	27
13285	410	15057	382	15426	450	15877	493	20076	27
13286	410	15058	382	15430	451	15878	493	20077	27
13287	410	15059	384	15431	451	15879	493	20078	27
13288	410	15062	384	15432	451	15880	493	20079	27
13289	410	15063	384	15433	451	15881	493	20080	27
13290	410	15065	385	15434	451	15882	493	20081	27
13291	410	15066	385	15435	451	15883	493	20082	27
13292	410	15067	385	15440	451	15884	493	20083	27
13293	410	15068	385	15441	451	15885	493	20084	27
13294	410	15070	386	15442	451	15886	493	20085	27
13295	410	15071	386	15443	451	15887	493	20086	27
13296	410	15075	387	15444	451	15890	493	20087	27
13297	410	15076	387	15446	451	15891	493	20089	27
13298	410	15077	387	15447	451	15892	493	20090	27
13299	410	15078	387	15455	451	15893	493	20091	27
13310	411	15080	387	15456	451	15894	493	20092	27
13311	411	15083	386	15457	451	15895	493	20093	27
13312	411	15096	396	15458	451	15896	493	20094	27
13313	411	15115	388	15459	451	15897	493	20095	27
13314	411	15116	388	15460	454	15898	493	20096	28
13315	411	15117	388	15461	454	15899	493	20097	28
13316	411	15118	388	15462	454	15757	449	20098	28
13317	411	15120	388	15463	454	15758	449	20099	28
13380	306	15121	388	15464	454	15759	449	20100	28
13381	306	15122	388	15465	454	15760	449	20101	28
13382	306	15123	388	15466	454	15761	449	20102	28
13383	306	15124	388	15467	454	15762	449	20103	28
13385	307	15125	388	15470	454	15763	449	20104	28
13386	307	15126	388	15471	454	15764	449	20105	28
13387	307	15127	388	15472	454	15765	449	20106	28
13388	307	15128	388	15473	454	15761	449	20107	28
13393	410	15130	388	15475	454	15762	449	20108	28
13394	410	15132	388	15476	454	15763	449	20109	28
13395	410	15140	394	15477	454	15764	449	20110	28
13396	410	15142	394	15478	454	20001	9	20111	28
13430	108	15145	394	15480	457	20002	12	20112	28
13451	108	15148	394	15481	457	20003	12	20113	28
13452	108	15150	394	15482	457	20004	12	20114	24
13453	108	15152	394	15483	457	20005	12	20115	24
13454	108	15153	394	15484	457	20006	12	20116	13
13455	108	15154	394	15485	457	20007	12	20117	13
13456	108	15155	394	15486	457	20008	12	20118	46
134910	373	15156	394	15487	457	20009	12	20119	46
134911	373	15157	394	15488	457	20010	12	20120	46
134912	373	15158	394	15489	457	20011	12	20121	46
134913	373	15159	394	15490	457	20012	12	20122	47
134915	373	15160	394	15491	457	20013	12	20123	47
134916	373	15162	394	15492	457	20014	12	20124	47

WESTERN ELECTRIC COMPANY.

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
20125	47	20233	92	20333	36	20436	118	20541	121
20126	47	20234	92	20334	36	20437	118	20542	121
20127	47	20235	92	20335	36	20438	118	20543	121
20128	47	20236	92	20336	37	20439	118	20544	121
20129	47	20237	92	20337	37	20440	118	20545	121
20130	48	20238	93	20338	37	20441	118	20546	121
20131	48	20239	95	20339	37	20442	118	20547	121
20132	48	20240	95	20340	37	20443	118	20548	122
20133	48	20241	95	20341	37	20444	118	20549	122
20134	48	20242	97	20342	37	20445	118	20550	122
20135	48	20243	97	20343	37	20446	118	20551	122
20136	49	20244	97	20344	37	20447	118	20552	122
20137	49	20245	97	20345	37	20448	118	20553	122
20138	49	20246	97	20346	37	20449	118	20554	122
20139	49	20247	97	20347	37	20450	118	20555	122
20140	49	20248	97	20348	37	20451	118	20556	122
20141	49	20249	97	20349	37	20452	118	20557	122
20142	49	20250	97	20350	37	20453	118	20558	122
20143	49	20251	97	20351	37	20454	118	20559	122
20144	50	20252	97	20352	112	20455	118	20560	122
20145	50	20253	97	20353	112	20456	118	20561	122
20146	50	20254	89	20354	112	20457	119	20562	122
20147	50	20255	89	20355	112	20458	119	20563	122
20148	51	20256	90	20356	112	20459	119	20564	122
20149	51	20257	90	20357	112	20460	119	20565	122
20150	51	20258	90	20358	112	20461	119	20566	122
20151	51	20259	90	20359	112	20462	119	20567	122
20152	51	20260	90	20360	112	20463	119	20568	122
20153	52	20261	90	20361	112	20464	119	20569	122
20154	52	20262	90	20362	112	20465	119	20570	122
20155	52	20263	90	20363	112	20466	119	20571	122
20156	52	20264	90	20364	112	20467	119	20572	122
20157	52	20265	90	20365	112	20468	119	20573	122
20158	52	20266	98	20366	112	20469	119	20574	122
20159	52	20267	98	20367	112	20470	119	20575	122
20160	52	20268	97	20368	112	20471	119	20576	122
20161	52	20269	91	20369	112	20472	119	20577	122
20162	52	20270	91	20370	112	20473	119	20578	122
20163	52	20271	91	20371	112	20474	119	20579	122
20164	52	20272	91	20372	112	20475	119	20580	122
20165	52	20273	91	20373	112	20476	119	20581	122
20166	52	20274	91	20374	112	20477	119	20582	122
20167	53	20275	91	20375	112	20478	119	20583	122
20168	53	20276	91	20376	112	20479	119	20584	122
20169	53	20277	91	20377	112	20480	119	20585	122
20170	53	20278	91	20378	112	20481	119	20586	122
20171	53	20279	91	20379	112	20482	119	20587	122
20172	78	20280	91	20380	112	20483	119	20588	122
20173	78	20281	91	20381	112	20484	119	20589	122
20174	78	20282	35	20382	112	20485	119	20590	122
20175	78	20283	35	20383	112	20486	119	20591	122
20176	78	20284	35	20384	112	20487	119	20592	122
20177	78	20285	35	20385	112	20488	119	20593	122
20178	78	20286	35	20386	112	20489	119	20594	122
20179	78	20287	35	20387	112	20490	119	20595	122
20180	78	20288	35	20388	112	20491	119	20596	122
20181	78	20289	35	20389	112	20492	119	20597	122
20182	78	20290	35	20390	112	20493	119	20598	122
20183	78	20291	35	20391	112	20494	119	20599	122
20184	78	20292	35	20392	112	20495	119	20600	122
20185	78	20293	35	20393	112	20496	119	20601	122
20186	78	20294	35	20394	112	20497	119	20602	122
20187	78	20295	35	20395	112	20498	119	20603	122
20188	78	20296	35	20396	112	20499	119	20604	122
20189	78	20297	35	20397	112	20500	119	20605	122
20190	78	20298	35	20398	112	20501	119	20606	122
20191	78	20299	35	20399	112	20502	119	20607	122
20192	78	20300	35	20400	112	20503	119	20608	122
20193	78	20301	35	20401	112	20504	119	20609	122
20194	78	20302	35	20402	112	20505	119	20610	122
20195	78	20303	35	20403	112	20506	119	20611	122
20196	78	20304	35	20404	112	20507	119	20612	122
20197	78	20305	35	20405	112	20508	119	20613	122
20198	78	20306	35	20406	112	20509	119	20614	122
20199	78	20307	35	20407	112	20510	119	20615	122
20200	78	20308	35	20408	112	20511	119	20616	122
20201	78	20309	35	20409	112	20512	119	20617	122
20202	78	20310	35	20410	112	20513	119	20618	122
20203	78	20311	35	20411	112	20514	119	20619	122
20204	78	20312	35	20412	112	20515	119	20620	122
20205	78	20313	35	20413	112	20516	119	20621	122
20206	78	20314	35	20414	112	20517	119	20622	122
20207	78	20315	35	20415	112	20518	119	20623	122
20208	78	20316	35	20416	112	20519	119	20624	122
20209	78	20317	35	20417	112	20520	119	20625	122
20210	78	20318	35	20418	112	20521	119	20626	122
20211	78	20319	35	20419	112	20522	119	20627	122
20212	78	20320	35	20420	112	20523	119	20628	122
20213	78	20321	35	20421	112	20524	119	20629	122
20214	78	20322	35	20422	112	20525	119	20630	122
20215	78	20323	35	20423	112	20526	119	20631	122
20216	78	20324	35	20424	112	20527	119	20632	122
20217	78	20325	35	20425	112	20528	119	20633	122
20218	78	20326	35	20426	112	20529	119	20634	122
20219	78	20327	35	20427	112	20530	119	20635	122
20220	78	20328	35	20428	112	20531	119	20636	122
20221	78	20329	35	20429	112	20532	119	20637	122
20222	78	20330	35	20430	112	20533	119	20638	122
20223	78	20331	35	20431	112	20534	119	20639	122
20224	78	20332	35	20432	112	20535	119	20640	122
20225	78	20333	35	20433	112	20536	119	20641	122
20226	78	20334	35	20434	112	20537	119	20642	122
20227	78	20335	35	20435	112	20538	119	20643	122
20228	78	20336	35	20436	112	20539	119	20644	122
20229	78	20337	35	20437	112	20540	119	20645	122
20230	78	20338	35	20438	112	20541	119	20646	122
20231	78	20339	35	20439	112	20542	119	20647	122
20232	78	20340	35	20440	112	20543	119	20648	122

WESTERN ELECTRIC COMPANY.

541

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
20672	125	20830	188	20992	169	21113	170	21227	173
20673	125	20894	188	20993	169	21114	170	21227	173
20674	125	20895	181	20994	169	21115	170	21269	140
20675	125	20896	181	21000	262	21116	170	21270	140
20676	125	20897	182	21001	262	21117	170	21271	140
20677	125	20898	182	21002	262	21118	170	21272	140
20678	125	20900	183	21003	262	21119	170	21273	140
20679	125	20901	139	21004	262	21120	170	21274	140
20680	125	20902	139	21005	263	21121	170	21275	140
20681	125	20903	139	21006	263	21122	170	21276	140
20682	125	20904	139	21007	263	21123	170	21277	140
20683	125	20905	139	21008	263	21124	170	21278	140
20684	125	20906	139	21009	263	21125	170	21279	140
20685	125	20907	139	21010	263	21126	170	21280	140
20686	125	20908	139	21011	263	21127	170	21281	140
20687	125	20909	129	21012	263	21128	170	21282	140
20688	125	20910	129	21013	263	21129	170	21283	140
20689	125	20911	129	21014	263	21130	170	21284	140
20690	125	20912	139	21015	263	21131	170	21286	140
20691	125	20913	139	21016	133	21132	170	21287	140
20692	126	20914	139	21017	133	21133	170	21288	140
20693	126	20915	139	21018	133	21134	170	21294	275
20694	126	20916	139	21019	133	21135	170	21350	157
20695	126	20917	129	21020	133	21136	170	21351	157
20696	126	20918	139	21021	133	21137	170	21352	157
20697	126	20919	139	21022	133	21138	170	21353	179
20698	126	20920	139	21023	133	21139	170	21354	179
20699	126	20921	139	21025	133	21140	170	21355	179
20700	126	20922	139	21026	133	21141	170	21358	180
20701	126	20923	139	21027	133	21142	170	21359	180
20702	126	20924	139	21028	133	21143	170	21360	179
20703	126	20925	139	21029	138	21144	170	21361	253
20704	126	20926	139	21030	168	21145	170	21362	253
20705	126	20927	139	21031	168	21146	170	21363	253
20706	126	20928	139	21032	168	21147	170	21364	253
20707	126	20929	139	21033	178	21148	170	21365	253
20708	126	20930	139	21034	178	21149	170	21366	253
20709	126	20931	139	21035	178	21150	171	21367	253
20710	126	20932	139	21036	178	21151	171	21368	253
20711	126	20933	139	21037	178	21152	171	21369	253
20712	126	20934	139	21038	178	21153	171	21370	259
20713	126	20935	139	21039	178	21154	171	21371	259
20714	126	20936	139	21040	178	21155	171	21372	259
20715	126	20937	139	21041	178	21156	171	21373	259
20716	137	20938	139	21042	178	21157	171	21374	259
20717	137	20939	139	21043	178	21158	171	21375	259
20718	137	20940	139	21044	178	21159	171	21376	260
20719	137	20941	139	21046	178	21160	171	21377	260
20720	137	20942	139	21047	178	21161	171	21378	260
20721	137	20943	139	21048	162	21162	171	21379	260
20722	137	20944	139	21049	162	21163	171	21380	260
20723	137	20945	139	21050	162	21164	171	21381	260
20724	137	20946	139	21051	168	21165	171	21382	260
20725	137	20947	139	21052	163	21166	171	21383	260
20726	137	20948	139	21053	162	21167	171	21384	260
20727	137	20949	139	21054	162	21168	171	21385	260
20728	137	20950	139	21055	176	21169	171	21386	260
20729	137	20951	139	21056	176	21170	197	21387	260
20730	137	20952	139	21057	176	21171	197	21388	260
20731	137	20953	139	21058	164	21172	197	21389	260
20732	137	20954	140	21059	164	21173	197	21390	260
20733	137	20955	140	21060	164	21174	197	21391	260
20734	137	20956	140	21061	164	21175	197	21392	260
20735	137	20957	140	21062	164	21176	197	21393	260
20736	137	20958	140	21063	164	21177	197	21394	260
20737	137	20959	140	21064	164	21178	197	21395	260
20738	137	20960	140	21065	164	21179	197	21396	260
20739	137	20961	140	21066	164	21180	197	21397	260
20740	137	20962	140	21067	164	21181	197	21398	260
20741	137	20963	140	21068	164	21182	197	21399	260
20742	137	20964	140	21069	164	21183	197	21400	260
20743	137	20965	140	21070	164	21184	197	21401	260
20744	137	20966	140	21071	164	21185	197	21402	260
20745	137	20967	140	21072	164	21186	197	21403	260
20746	137	20968	140	21073	164	21187	197	21404	260
20747	137	20969	140	21074	164	21188	197	21405	260
20748	137	20970	169	21075	169	21189	197	21406	263
20749	137	20971	169	21076	169	21190	197	21407	263
20750	137	20972	169	21077	169	21191	197	21408	263
20751	137	20973	169	21078	169	21192	197	21409	263
20752	137	20974	169	21079	169	21193	197	21410	263
20753	137	20975	169	21080	169	21194	197	21411	263
20754	137	20976	169	21081	169	21195	197	21412	263
20755	137	20977	169	21082	169	21196	197	21413	263
20756	137	20978	169	21083	169	21197	197	21414	263
20757	137	20979	169	21084	169	21198	197	21415	263
20758	137	20980	169	21085	169	21199	197	21416	263
20759	137	20981	169	21086	169	21200	197	21417	263
20760	137	20982	169	21087	169	21201	197	21418	263
20761	137	20983	169	21088	169	21202	197	21419	263
20762	137	20984	169	21089	169	21203	197	21420	263
20763	137	20985	169	21090	169	21204	197	21421	263
20764	137	20986	169	21091	169	21205	197	21422	263
20765	137	20987	169	21092	169	21206	197	21423	263
20766	137	20988	169	21093	169	21207	197	21424	263
20767	137	20989	169	21094	169	21208	197	21425	263
20768	137	20990	169	21095	169	21209	197	21426	263
20769	137	20991	169	21096	169	21210	197	21427	263
20770	137	20992	169	21097	169	21211	197	21428	263
20771	137	20993	169	21098	169	21212	197	21429	263
20772	137	20994	169	21099	169	21213	197	21430	263
20773	137	20995	169	21100	169	21214	197	21431	263
20774	137	20996	169	21101	169	21215	197	21432	263
20775	137	20997	169	21102	169	21216	197	21433	263
20776	137	20998	169	21103	169	21217	197	21434	263
20777	137	20999	169	21104	169	21218	197	21435	263
20778	137	21000	169	21105	169	21219	197	21436	263
20779	137	21001	169	21106	169	21220	197	21437	263
20780	137	21002	169	21107	169	21221	197	21438	263
20781	137	21003	169	21108	169	21222	197	21439	263
20782	137	21004	169	21109	169	21223	197	21440	263
20783	137	21005	169	21110	169	21224	197	21441	263
20784	137	21006	169	21111	169	21225	197	21442	263
20785	137	21007	169	21112	169	21226	197	21443	263
20786	137	21008	169	21113	169	21227	197	21444	263
20787	137	21009	169	21114	169	21228	197	21445	263
20788	137	21010	169	21115	169	21229	197	21446	263
20789	137	21011	169	21116	169	21230	197	21447	263
20790	137	21012	169	21117	169	21231	197	21448	263
20791	137	21013	169	21118	169	21232	197	21449	263
20792	137	21014	169	21119	169	21233	197	21450	263
20793	137	21015	169	21120	169	21234	197	21451	263
20794	137	21016	169	21121	169	21235	197	21452	263
20795	137	21017	169	21122	169	21236	197	21453	263
20796	137	21018	169	21123	169	21237	197	21454	263
20797	137	21019	169	21124	169	21238	197	21455	263
20798	137	21020	169	21125	169	21239	197	21456	263
20799	137	21021	169	21126	169	21240	197	21457	263
20800	137	21022	169	21127	169	21241	197	21458	263
20801	137	21023	169	21128	169	21242	197	21459	263
20802	137	21024	169	21129	169	21243	197	21460	26

WESTERN ELECTRIC COMPANY.

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
21429	259	21526	343	21625	352	21732	213	21833	220
21430	327	21527	343	21626	352	21733	213	21834	220
21431	327	21528	343	21627	352	21734	213	21835	220
21432	327	21529	343	21628	352	21735	214	21836	220
21433	327	21530	343	21629	352	21736	214	21837	220
21434	327	21531	343	21630	352	21737	214	21838	220
21435	327	21532	343	21631	352	21738	214	21839	221
21436	327	21533	343	21632	352	21739	214	21840	221
21437	327	21534	343	21633	352	21740	214	21841	221
21438	327	21535	343	21635	352	21741	214	21843	221
21439	327	21537	343	21636	166	21742	214	21844	221
21440	327	21538	343	21643	264	21743	214	21845	221
21441	327	21539	343	21646	264	21744	214	21846	221
21442	327	21540	343	21647	264	21745	214	21847	221
21443	327	21541	344	21648	264	21746	214	21848	221
21444	327	21542	344	21649	264	21747	214	21849	221
21445	328	21543	344	21650	264	21748	214	21850	221
21446	328	21544	344	21651	264	21749	214	21851	221
21447	328	21545	344	21652	264	21750	214	21852	224
21448	328	21546	344	21653	264	21751	214	21853	224
21449	328	21547	344	21654	264	21752	214	21854	224
21450	328	21548	344	21655	264	21753	214	21855	224
21451	328	21549	344	21656	264	21754	214	21856	224
21452	328	21550	344	21657	264	21755	214	21857	224
21453	328	21551	344	21658	264	21756	215	21858	224
21454	328	21552	344	21659	264	21757	215	21859	224
21455	328	21553	344	21660	264	21758	215	21860	225
21456	328	21554	344	21661	264	21759	215	21861	225
21457	328	21555	344	21662	264	21760	215	21862	228
21458	328	21556	346	21663	264	21761	215	21863	228
21459	328	21557	346	21664	264	21762	215	21864	228
21460	328	21558	346	21665	264	21763	215	21865	228
21461	328	21559	346	21666	264	21764	215	21866	228
21462	328	21560	346	21667	264	21765	215	21867	228
21463	328	21561	346	21668	264	21766	215	21868	228
21464	328	21562	346	21669	264	21767	215	21869	228
21465	328	21563	346	21670	264	21768	215	21870	228
21466	328	21564	346	21671	264	21769	216	21871	228
21466.5	328	21565	346	21672	264	21770	216	21872	228
21467	328	21566	346	21673	264	21771	216	21873	228
21468	328	21567	346	21674	264	21772	216	21874	228
21469	328	21568	346	21675	264	21773	216	21875	228
21470	328	21569	346	21676	264	21774	216	21876	228
21471	328	21570	346	21677	264	21775	216	21877	228
21472	328	21571	346	21678	265	21776	216	21878	228
21473	328	21572	346	21679	265	21777	216	21879	228
21474	328	21573	346	21680	265	21778	216	21880	228
21475	328	21574	346	21681	265	21779	216	21881	228
21476	328	21575	347	21682	265	21780	216	21882	228
21477	328	21576	347	21683	265	21781	216	21883	228
21478	328	21577	347	21684	265	21782	216	21884	228
21479	328	21578	347	21685	265	21783	218	21885	233
21480	328	21579	347	21686	265	21784	218	21886	233
21481	328	21580	347	21687	265	21785	218	21887	233
21482	328	21581	347	21688	265	21786	218	21888	233
21483	328	21582	347	21689	265	21787	218	21889	233
21484	328	21583	347	21690	265	21788	218	21890	233
21485	328	21584	347	21691	265	21789	218	21891	233
21486	328	21585	347	21692	265	21790	218	21892	233
21487	328	21586	347	21693	265	21791	218	21893	233
21488	328	21587	347	21694	265	21792	218	21894	233
21489	328	21588	347	21695	266	21793	218	21895	274
21490	324	21589	347	21696	265	21794	218	21896	274
21491	324	21590	347	21697	265	21795	219	21897	274
21492	324	21591	347	21698	265	21796	219	21898	274
21493	324	21592	347	21699	265	21797	219	21899	274
21494	324	21593	347	21700	265	21800	219	21900	274
21495	324	21594	347	21701	265	21801	219	21901	274
21496	324	21595	347	21702	265	21802	219	21902	274
21497	324	21596	347	21703	265	21803	219	21903	274
21498	324	21597	347	21704	265	21804	219	21904	274
21499	324	21598	347	21705	265	21805	219	21905	274
21500	324	21599	347	21706	265	21806	219	21906	274
21501	324	21600	347	21707	265	21807	219	21907	274
21502	324	21601	347	21708	265	21808	219	21908	274
21503	324	21602	347	21709	265	21809	219	21909	274
21504	324	21603	348	21710	265	21810	219	21910	274
21505	324	21604	348	21711	265	21811	219	21911	274
21506	324	21605	348	21712	265	21812	219	21912	274
21507	324	21606	348	21713	265	21813	219	21913	274
21508	324	21607	348	21714	265	21814	219	21914	274
21509	324	21608	348	21715	265	21815	219	21915	274
21510	324	21609	348	21716	265	21816	219	21916	274
21511	324	21610	348	21717	265	21817	219	21917	274
21512	324	21611	348	21718	265	21818	219	21918	274
21513	324	21612	348	21719	265	21819	217	21919	274
21514	324	21613	348	21720	265	21820	217	21920	275
21515	343	21614	348	21721	265	21821	217	21921	275
21516	343	21615	348	21722	265	21822	217	21922	275
21517	343	21616	348	21723	265	21823	217	21923	275
21518	343	21617	348	21724	265	21824	217	21924	275
21519	343	21618	352	21725	265	21825	217	21925	276
21520	343	21619	352	21726	265	21826	217	21926	276
21521	343	21620	352	21727	265	21827	217	21927	276
21522	343	21621	352	21728	265	21828	217	21928	276
21523	343	21622	352	21729	265	21829	230	21929	276
21524	343	21623	352	21730	265	21830	230	21930	276
21525	343	21624	352	21731	213	21831	220	21931	276
						21832	220	21932	276

WESTERN ELECTRIC COMPANY.

543

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
21933	276	22033	287	23030	301	23131	404	24032	327
21934	276	22034	287	23031	301	23132	404	24033	327
21935	276	22035	287	23032	301	23133	404	24034	327
21936	279	22036	287	23033	301	23134	404	24035	327
21937	279	22037	287	23034	301	23135	404	24036	327
21938	279	22038	287	23035	301	23136	290	24037	326
21939	279	22039	287	23036	302	23137	290	24038	326
21940	279	22040	287	23037	302	23138	290	24039	326
21941	278	22041	287	23038	302	23139	290	24040	326
21942	278	22042	287	23039	302	23140	290	24041	326
21943	278	22043	287	23040	302	23141	290	24042	326
21944	278	22044	287	23041	302	23142	290	24043	326
21945	278	22045	281	23042	302	23143	290	24044	326
21946	278	22046	281	23043	302	23144	290	24045	326
21947	278	22047	281	23044	302	23145	290	24046	326
21948	278	22048	285	23045	302	23146	290	24047	326
21949	277	22049	285	23046	302	23147	290	24048	326
21950	277	22050	285	23047	303	23148	290	24049	326
21951	277	22051	285	23048	303	23149	290	24050	326
21952	277	22052	285	23049	303	23150	290	24051	326
21953	277	22053	285	23050	303	23151	290	24052	326
21954	277	22054	285	23051	303	23152	308	24053	326
21955	277	22055	285	23052	303	23153	308	24054	326
21956	281	22056	285	23053	303	23154	309	24055	326
21957	281	22057	285	23054	303	23155	309	24056	326
21958	281	22058	285	23055	303	23156	309	24057	326
21959	280	22059	285	23056	308	23157	309	24058	326
21960	280	22060	285	23057	308	23158	309	24059	326
21961	280	22061	285	23058	308	23159	310	24060	326
21962	282	22062	285	23059	304	23160	310	24061	326
21963	282	22063	285	23060	304	23161	314	24062	326
21964	282	22064	285	23061	304	23162	311	24063	326
21965	282	22065	285	23062	304	23163	311	24064	326
21966	282	22066	286	23063	304	23164	312	24065	326
21967	282	22067	286	23064	304	23165	312	24066	326
21968	282	22068	286	23065	304	23166	312	24067	326
21969	282	22069	286	23066	304	23167	312	24068	324
21970	283	22070	286	23067	304	23168	312	24069	324
21971	283	22071	286	23068	305	23169	312	24070	324
21972	283	22072	286	23069	305	23170	312	24071	324
21973	283	22073	286	23070	305	23171	311	24072	324
21974	283	22074	300	23071	305	23172	311	24073	324
21975	283	22075	300	23072	305	23173	311	24074	324
21976	283	22076	300	23073	305	23174	311	24075	324
21977	283	22077	300	23074	305	23175	313	24076	324
21978	283	22078	300	23075	305	23176	313	24077	324
21979	283	22079	300	23076	179	23177	313	24078	324
21980	283	22080	300	23077	180	23178	313	24079	324
21981	283	22081	300	23078	181	23179	313	24080	324
21982	283	22082	300	23079	220	23180	313	24081	324
21983	283	22083	300	23080	220	23181	314	24082	324
21984	283	22084	300	23081	220	23182	314	24083	301
21985	283	22085	300	23082	270	23183	314	24084	301
21986	283	22086	300	23083	190	23184	315	24085	300
21987	283	22087	300	23084	190	23185	315	24086	300
21988	283	22088	300	23085	288	23186	315	24087	300
21989	283	22089	300	23086	288	23187	315	24088	300
21990	285	22090	300	23087	291	23188	316	24089	300
21991	285	22091	300	23088	291	23189	316	24090	300
21992	285	22092	300	23089	288	23190	316	24091	300
21993	285	22093	300	23090	288	23191	316	24092	300
21994	285	22094	300	23091	288	23192	316	24093	300
21995	285	22095	300	23092	288	23193	316	24094	300
21996	284	22096	300	23093	288	23194	316	24095	300
21997	284	22097	300	23094	291	23195	316	24096	300
21998	284	22098	300	23095	291	23196	317	24097	300
21999	284	22099	300	23096	272	23197	317	24098	300
22000	284	22100	300	23097	272	23198	318	24099	300
22001	284	22101	300	23098	272	23199	318	24100	300
22002	284	22102	331	23099	272	23200	318	24101	300
22003	284	22103	301	23100	272	23201	318	24102	300
22004	284	22104	301	23101	272	23202	318	24103	300
22005	284	22105	301	23102	272	23203	318	24104	300
22006	284	22106	301	23103	272	23204	318	24105	300
22007	284	22107	301	23104	207	23205	318	24106	300
22008	284	22108	301	23105	207	23206	318	24107	300
22009	284	22109	301	23106	207	23207	318	24108	300
22010	284	22110	301	23107	207	23208	318	24109	300
22011	284	22111	301	23108	207	23209	318	24110	300
22012	284	22112	301	23109	212	23210	318	24111	300
22013	285	22113	301	23110	212	23211	318	24112	300
22014	285	22114	301	23111	212	23212	318	24113	300
22015	285	22115	301	23112	212	23213	318	24114	300
22016	285	22116	301	23113	212	23214	318	24115	300
22017	286	22117	301	23114	212	23215	318	24116	300
22018	286	22118	301	23115	212	23216	318	24117	300
22019	286	22119	301	23116	212	23217	318	24118	300
22020	286	22120	301	23117	212	23218	318	24119	300
22021	286	22121	301	23118	212	23219	318	24120	300
22022	286	22122	301	23119	212	23220	318	24121	300
22023	286	22123	301	23120	212	23221	318	24122	300
22024	286	22124	301	23121	212	23222	318	24123	300
22025	286	22125	301	23122	212	23223	318	24124	300
22026	286	22126	301	23123	212	23224	318	24125	300
22027	286	22127	301	23124	212	23225	318	24126	300
22028	286	22128	301	23125	212	23226	318	24127	300
22029	286	22129	301	23126	212	23227	318	24128	300
22030	286	22130	301	23127	212	23228	318	24129	300
22031	287	22131	301	23128	212	23229	318	24130	300
22032	287	22132	301	23129	212	23230	318	24131	300
		22133	301	23130	212	23231	318	24132	300
						23232	318	24133	300
						23233	318	24134	300

WESTERN ELECTRIC COMPANY.

CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.	CAT. No.	PAGE.
24135	419	24260	477	24358	482	24458	491	25198	118
24136	440	24261	477	24359	482	24459	491	25199	118
24137	440	24262	477	24360	482	24460	497	25210	118
24138	449	24263	477	24361	482	24461	497	25211	118
24139	449	24264	477	24362	482	24462	497	25212	118
24140	449	24265	477	24363	482	24463	497	25213	112
24141	449	24266	478	24364	482	24464	497	25214	112
24142	449	24267	478	24365	482	24465	424	25215	112
24143	449	24268	478	24366	482	24467	424	25216	112
24144	449	24269	478	24367	482	24468	424	25217	112
24146	439	24270	478	24368	482	24477	70	25218	112
24147	439	24271	478	24369 ^{1/2}	479	24478	70	25219	119
24148	439	24272	478	24370	479	24479	70	25220	112
24149	439	24273	478	24371	479	24487	61	25221	120
24150	475	24274	478	24372	479	24488	100	25222	120
24151	475	24275	478	24373	479	24489	100	25223	120
24152	475	24276	478	24374	479	24490	100	25224	120
24153	475	24277	478	24375	479	24491	100	25225	120
24154	475	24278	478	24376	479	24492	100	25226	120
24155	475	24279	478	24376	479	25000	132	25227	120
24156	475	24280	478	24377	479	25001	166	25228	120
24157	475	24281	478	24378	479	25002	166	25229	120
24158	475	24282	478	24379	479	25003	166	25230	120
24159	475	24283	478	24380	179	25004	166	25231	120
24160	475	24284	478	24381	179	25005	166	25232	120
24161	475	24285	478	24382	179	25006	166	25233	120
24162	475	24286	478	24383	480	25007	166	25234	120
24163	475	24287	478	24384	480	25008	166	25235	120
24164	475	24288	478	24385	480	25009	166	25236	121
24165	475	24289	478	24386	480	25010	166	25237	121
24166	475	24290	478	24387	480	25011	166	25238	121
24167	475	24291	478	24388	480	25012	490	25239	121
24168	475	24292	478	24389	480	25013	490	25240	121
24169	475	24293	478	24390	480	25017	490	25241	121
24170	475	24294	478	24391	480	25028	490	25242	121
24171	475	24295	478	24392	480	25029	490	25243	121
24172	475	24296	478	24393	480	25030	490	25244	121
24173	475	24297	478	24394	480	25031	490	25245	121
24174	475	24298	481	24395	480	25032	490	25246	121
24175	475	24299	481	24396	480	25033	490	25247	121
24200	475	24300	481	24397	480	25034	490	25248	121
24201	475	24301	481	24398	480	25035	490	25249	121
24202	475	24302	481	24399	480	25036	490	25250	121
24203	475	24303	481	24400	430	25037	490	25251	121
24204	475	24304	481	24401	480	25038	490	25252	121
24205	475	24305	481	24402	480	25039	490	25253	121
24206	475	24306	481	24403	480	25040	490	25254	121
24207	475	24307	481	24404	480	25041	490	25255	121
24208	475	24308	481	24405	480	25042	490	25256	121
24209	475	24309	481	24406	480	25043	490	25257	121
24210	475	24310	481	24407	480	25044	490	25258	121
24212	476	24311	481	24408	480	25045	490	25259	121
24214	476	24312	481	24409	480	25046	490	25260	121
24215	476	24313	481	24410	480	25047	490	25261	121
24216	476	24314	481	24411	480	25048	490	25262	96
24217	476	24315	481	24412	480	25049	490	25263	96
24218	476	24316	481	24413	480	25050	490	25264	96
24219	476	24317	481	24414	479	25051	490	25265	96
24220	476	24318	481	24415	479	25052	490	25266	96
24221	476	24319	481	24416	479	25053	490	25267	96
24222	476	24320	481	24417	479	25054	490	25268	96
24223	476	24321	481	24418	479	25055	490	25269	96
24224	476	24322	481	24419	479	25056	490	25270	96
24225	476	24323	481	24420	479	25057	490	25271	96
24226	476	24324	481	24421	479	25058	490	25272	96
24227	476	24325	481	24422	479	25059	490	25273	96
24228	476	24326	481	24423	479	25060	130	25274	96
24229	476	24327	481	24424	479	25061	130	25275	96
24230	476	24328	481	24425	479	25062	130	25276	96
24231	476	24329	482	24426	479	25063	130	25277	96
24232	476	24330	482	24427	479	25064	130	25278	96
24233	477	24331	482	24428	479	25065	130	25279	96
24234	477	24332	482	24429	479	25066	130	25280	119
24235	477	24333	482	24430	479	25067	67	25281	119
24236	477	24334	482	24431	479	25068	67	25282	119
24237	477	24335	482	24432	479	25069	67	25283	119
24238	477	24336	482	24433	457	25070	67	25284	119
24239	477	24337	482	24434	457	25071	67	25285	119
24240	477	24338	482	24435	457	25072	67	25286	119
24241	477	24339	482	24439	408	25073	453	25287	119
24242	477	24340	482	24441	408	25074	453	25288	119
24243	477	24341	482	24442	408	25075	269	25289	119
24244	477	24342	482	24443	408	25076	269	25290	119
24245	477	24343	482	24444	408	25088	380	25291	119
24246	477	24344	482	24445	408	25089	380	25292	119
24247	477	24345	482	24446	424	25090	380	25293	119
24248	477	24346	482	24446 ^{1/2}	528	25091	380	25294	119
24249	477	24347	482	24447	438	25092	380	25295	119
24250	477	24348	482	24448	438	25093	380	25296	119
24251	477	24349	482	24449	438	25094	434	25297	119
24252	477	24350	482	24450	438	25100	104	25298	119
24253	477	24351	482	24451	438	25101	104	25299	119
24254	477	24352	482	24452	438	25102	118	25300	119
24255	477	24353	482	24453	439	25103	118	25301	119
24256	477	24354	482	24454	439	25104	118	25302	119
24257	477	24355	482	24455	439	25105	118	25303	119
24258	477	24356	482	24456	439	25106	118	25304	122
24259	477	24357	482	24457	401	25107	118	25305	122

WESTERN ELECTRIC COMPANY.

545

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
25306	122	25311	85	25409	69	25504	229	25607	490
25307	122	25312	138	25410	69	25509	229	25608	495
25308	122	25313	138	25411	69	25510	229	25609	495
25309	122	25314	138	25412	69	25511	229	25610	495
25310	122	25315	138	25413	69	25512	229	25611	495
25311	122	25316	138	25414	69	25513	229	25612	495
25312	122	25317	138	25415	69	25514	229	25613	495
25313	122	25318	138	25416	69	25515	229	25614	495
25314	122	25319	138	25417	69	25516	229	25615	495
25315	122	25320	138	25418	69	25517	229	25616	495
25316	122	25321	138	25419	69	25518	229	25617	495
25317	122	25322	138	25420	69	25520	229	25618	495
25318	122	25323	151	25421	69	25521	229	25619	495
25319	122	25324	151	25422	69	25522	229	25620	495
25320	122	25325	157	25423	69	25523	229	25621	495
25321	122	25326	163	25424	69	25524	229	25622	495
25322	122	25327	163	25425	69	25525	229	25623	495
25323	122	25328	32	25426	69	25526	229	25624	495
25324	122	25329	32	25427	69	25527	229	25625	495
25325	122	25330	32	25428	69	25528	229	25626	495
25326	122	25331	32	25429	429	25529	229	25627	495
25327	122	25332	32	25430	429	25530	229	25628	495
25328	122	25333	32	25431	429	25531	229	25629	495
25329	122	25334	32	25432	429	25532	229	25630	495
25330	122	25335	32	25433	429	25533	230	25631	495
25331	122	25336	32	25434	429	25534	230	25632	495
25332	122	25337	32	25435	429	25535	230	25633	495
25333	122	25338	32	25436	429	25536	230	25634	495
25334	122	25339	32	25437	429	25537	230	25635	495
25335	122	25340	32	25438	429	25538	230	25636	495
25336	122	25341	32	25439	429	25539	230	25637	495
25337	122	25342	32	25440	430	25540	230	25638	495
25338	122	25343	32	25441	430	25541	230	25639	495
25339	122	25344	32	25442	430	25542	230	25640	495
25340	122	25345	32	25443	430	25543	230	25641	495
25341	122	25346	32	25444	430	25544	230	25642	495
25342	122	25347	32	25445	430	25545	230	25643	495
25343	122	25348	32	25446	430	25546	230	25644	495
25344	122	25349	32	25447	430	25547	231	25645	495
25345	122	25350	32	25448	430	25548	231	25646	495
25346	122	25351	33	25449	430	25549	231	25647	497
25347	122	25352	33	25450	430	25550	231	25648	497
25348	122	25353	33	25451	430	25551	231	25649	497
25349	122	25354	33	25452	430	25552	231	25650	497
25350	122	25355	33	25453	430	25553	231	25651	497
25351	122	25356	33	25454	430	25554	231	25652	497
25352	122	25357	33	25455	99	25555	231	25653	497
25353	126	25358	33	25457	99	25556	231	25654	497
25354	126	25359	33	25458	99	25557	231	25655	497
25355	126	25360	33	25459	99	25558	231	25656	497
25356	126	25361	33	25460	99	25559	232	25657	497
25357	126	25362	33	25461	499	25560	232	25658	497
25358	126	25363	33	25462	99	25561	232	25659	497
25359	126	25364	33	25463	99	25562	232	25660	497
25360	126	25365	33	25464	99	25563	231	25661	497
25361	126	25366	33	25465	99	25564	231	25662	497
25362	126	25367	34	25466	99	25565	231	25663	497
25363	126	25368	34	25467	99	25566	231	25664	497
25364	126	25369	34	25468	78	25567	231	25665	497
25365	126	25370	34	25469	330	25568	231	25666	497
25366	126	25371	34	25470	330	25569	231	25667	497
25367	126	25372	34	25471	330	25570	231	25668	497
25368	126	25373	34	25472	330	25571	147	25669	497
25369	126	25374	34	25473	319	25572	149	25670	497
25370	126	25375	34	25474	319	25573	149	25671	497
25371	126	25376	34	25475	319	25574	149	25672	497
25372	126	25377	34	25476	319	25575	149	25673	497
25373	126	25378	34	25477	319	25576	149	25674	502
25374	126	25379	34	25478	319	25577	149	25675	502
25375	126	25380	34	25479	319	25578	149	25676	502
25376	126	25381	34	25480	319	25579	149	25677	502
25377	126	25382	34	25481	319	25580	149	25678	502
25378	126	25383	34	25482	319	25581	150	25679	503
25379	126	25384	34	25483	319	25582	150	25680	503
25380	126	25385	34	25484	319	25583	150	25681	503
25381	126	25386	34	25485	319	25584	150	25682	503
25382	126	25387	34	25486	319	25585	150	25683	503
25383	126	25388	34	25487	319	25586	150	25684	503
25384	126	25389	34	25488	319	25587	150	25685	503
25385	126	25390	34	25489	319	25588	150	25686	503
25386	126	25391	34	25490	319	25589	150	25687	503
25387	126	25392	34	25491	319	25590	150	25688	503
25388	126	25393	34	25492	289	25591	259	25689	503
25389	126	25394	34	25493	289	25592	259	25690	503
25390	126	25395	34	25494	289	25593	259	25691	503
25391	126	25396	34	25495	289	25594	259	25692	503
25392	126	25397	32	25496	289	25595	373	25693	503
25393	126	25398	32	25497	289	25596	373	25694	503
25394	126	25399	30	25498	289	25597	373	25695	503
25395	126	25400	30	25499	229	25598	408	25696	503
25396	126	25401	30	25500	229	25599	408	25697	503
25397	126	25402	100	25501	229	25600	444	25698	503
25398	126	25403	100	25502	229	25601	444	25699	503
25399	126	25404	100	25503	229	25602	444	25700	503
25400	126	25405	100	25504	229	25603	444	25701	503
25401	126	25406	31	25505	229	25604	444	25702	503
25402	126	25407	69	25506	229	25605	444	25703	503
25403	126	25408	69	25507	229	25606	444	25704	503

WESTERN ELECTRIC COMPANY.

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
30344	37	32167	332	32480	335	61243	73	65189	151
30354	338	32172	332	32481	335	61245	73	65193	151
30355	338	32173	332	32482	337	61247	75	65197	151
30356	338	32174	332	32488	337	61257	74	65201	151
30367	338	32175	332	32490	337	61259	74	65205	151
30368	338	32178	332	32492	337	61365	74	65209	151
30616	340	32190	332	32494	337	61455	73	65213	151
30637	340	32192	332	32496	336	61487	73	65217	151
30648	340	32194	332	32497	336	61535	74	65221	151
30649	341	32196	332	32498	336	61565	73	65225	151
30650	341	32198	332	32499	336	61569	73	65229	151
30651	341	32240	331	32502	329	61587	74	65233	151
30681	342	32241	333	32503	339	61585	73	65237	151
30683	342	32242	331	32501	330	62135	75	65241	151
30911	337	32244	333	32592	339	62465	76	65245	151
30912	337-338	32245	333	32593	339	62490	76	65249	151
30913	337	32246	335	32598	331	62495	74	65253	151
30914	337	32247	333	32640	339	62569	75	65257	151
30915	337	32248	333	32641	339	62587	75	65261	151
30916	337	32249	333	32642	339	62585	73	65265	151
30917	337	32250	333	32643	340	62593	75	65269	151
30920	338	32251	332	32644	340	62595	75	65273	151
30931	340	32252	331	32645	340	62596	75	65277	151
30983	340	32253	333	32650	331	62597	200	65281	151
30984	340	32254	333	32692	331	62598	200	65285	151
30986	340	32255	333	32694	331	62599	200	65289	151
30987	340	32256	333	32695	331	62600	200	65293	151
30989	340	32257	333	32696	331	62601	200	65297	151
32002	329	32258	333	32697	331	62602	200	65301	151
32011	329	32259	333	32698	331	62603	200	65305	151
32046	333	32260	331	32699	331	62604	200	65309	151
32046 1/2	335	32265	331	32700	331	62605	200	65313	151
32048	333	32266	331	32701	331	62606	200	65317	151
32072	334	32267	331	32702	331	62607	200	65321	151
32072 1/2	335	32273	331	32703	331	62608	200	65325	151
32073	335	32274	331	32704	331	62609	200	65329	151
32074	334	32275	331	32705	331	62610	200	65333	151
32075	333	32281	334	32706	331	62611	200	65337	151
32076	335	32282	334	32707	331	62612	200	65341	151
32079	335	32283	334	32708	331	62613	200	65345	151
32090	330	32284	334	32709	331	62614	200	65349	151
32091	330	32285	334	32710	331	62615	200	65353	151
32092	330	32286	334	32711	331	62616	200	65357	151
32093	330	32287	334	32712	331	62617	200	65361	151
32098	332	32288	334	32713	331	62618	200	65365	151
32122	333	32289	334	32714	331	62619	200	65369	151
32123	333	32290	334	32715	331	62620	200	65373	151
32124	333	32291	334	32716	331	62621	200	65377	151
32126	333	32292	334	32717	331	62622	200	65381	151
32127	333	32293	334	32718	331	62623	200	65385	151
32128	333	32294	334	32719	331	62624	200	65389	151
32129	334	32295	334	32720	331	62625	200	65393	151
32130	334	32296	334	32721	331	62626	200	65397	151
32131	334	32297	334	32722	331	62627	200	65401	151
32132	334	32298	334	32723	331	62628	200	65405	151
32133	334	32299	334	32724	331	62629	200	65409	151
32134	334	32300	334	32725	331	62630	200	65413	151
32135	334	32301	334	32726	331	62631	200	65417	151
32136	334	32302	334	32727	331	62632	200	65421	151
32137	334	32303	334	32728	331	62633	200	65425	151
32138	334	32304	334	32729	331	62634	200	65429	151
32139	334	32305	334	32730	331	62635	200	65433	151
32140	334	32306	334	32731	331	62636	200	65437	151
32141	334	32307	334	32732	331	62637	200	65441	151
32142	334	32308	334	32733	331	62638	200	65445	151
32143	334	32309	334	32734	331	62639	200	65449	151
32144	334	32310	334	32735	331	62640	200	65453	151
32145	334	32311	334	32736	331	62641	200	65457	151
32146	334	32312	334	32737	331	62642	200	65461	151
32147	334	32313	334	32738	331	62643	200	65465	151
32148	334	32314	334	32739	331	62644	200	65469	151
32149	334	32315	334	32740	331	62645	200	65473	151
32150	334	32316	334	32741	331	62646	200	65477	151
32151	334	32317	334	32742	331	62647	200	65481	151
32152	334	32318	334	32743	331	62648	200	65485	151
32153	334	32319	334	32744	331	62649	200	65489	151
32154	334	32320	334	32745	331	62650	200	65493	151
32155	334	32321	334	32746	331	62651	200	65497	151
32156	334	32322	334	32747	331	62652	200	65501	151

Special Index to Numbers of W. E. Fan Motors.

CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.	CAT. NO.	PAGE.
A 4	359	AAA 15	359	CC 70	364	F 22	363	G 45	366
A 5	359	AAA 16	360	CC 71	364	F 23	363	G 48	366
A 6	359	AAA 17	361	CC 72	364	F 24	363	G 51	366
A 10	360	C 34	361	CC 68	364	F 54	364	G 85	366
A 11	360	C 66	364	CC 71	364	F 55	364	G 84	366
A 12	360	C 69	364	CC 74	364	F 56	364	G 44	366
A 24	363	C 72	364	F 1	359	F 57	364	G 46	366
A 25	363	C 75	364	F 2	359	F 58	364	G 49	366
A 26	363	C 76	364	F 3	359	F 59	364	G 84	366
A 27	363	C 77	364	F 7	360	F 60	364	G 86	366
A 28	363	C 78	364	F 8	360	F 61	364	M 37	362
A 29	363	C 79	364	F 9	360	F 62	364	MM 38	362
A 30	363	C 80	364	F 17	363	F 63	364	MM 39	362
A 31	363	C 81	364	F 18	363	F 64	364	T 50	367
AA 13	359	C 82	364	F 19	363	F 65	364	T 51	367
AA 14	360	CC 35	361	F 20	363	F 66	364	T 52	367
AA 32	363	CC 67	364	F 21	363	G 43	366	T 53	367

Index to Headings.

	PAGE.
Appendix.....	494 to 504
Arc Supplies, Miscellaneous.....	155 to 198
Conduit and Conduit Fittings.....	321 to 357
Construction Material.....	417 to 465
Cutouts.....	60 to 82
Electric Cooking and Heating Apparatus.....	308 to 320
Fixtures.....	274 to 294
Incandescent Supplies, Miscellaneous.....	103 to 154
Marine Supplies.....	199 to 206
Miniature Incandescent Lamps.....	299 to 307

	PAGE.
Motors.....	358 to 372
Shades.....	207 to 239
Sockets and Receptacles.....	83 to 102
Station and Workmen's Supplies.....	407 to 416
Station, Testing and Measuring Instruments.....	240 to 273
Sunbeam Incandescent Lamps.....	295 to 299
Switches.....	9 to 59
Tools.....	373 to 406
Western Electric Fan Motors.....	358 to 367
Wires, Cords and Cables.....	466 to 493

Index to Materials.

	PAGE.
Accessories for Switches.....	24
Acme Portable Testing Set.....	270
Acme Shade Holder.....	106
Acorn Cap.....	250
Adapters with Pins and Cords, Lamp.....	257
Adjustable House Brackets.....	462
Adjustable Lamp Hanger, Improved.....	179
Adjustable Malleable Iron Handles.....	385
Adjustable Portable and Bracket.....	280
Adjustable Rheostats.....	133
Adjustable Transformers.....	269
Adjusters, Cord.....	104, 105
Alcohol Blow Lamp.....	405
Alcohol Soldering Torch.....	402
All China Junction Boxes and Motor Cutouts, P. & S.....	372
All Steel Pliers, Voin Clief's.....	383
Allen Soldering Stick.....	401
Almond Flexible Bracket.....	276
Alternating Current Ammeters.....	253 to 265
Alternating Current Amperemeters.....	259
Alternating Current Fan Motors.....	366, 367
Alternating Current Instruments.....	257 to 265
Alternating Current Tower Motor.....	371
Alternating Current Voltmeters.....	257, 260
Alternating Current Wattmeters.....	263, 265
Alternating Power Motors, Single Phase.....	503
Aluminum Half Shape Shade.....	234
Aluminum Lined Reflectors.....	220
Always Level" Suspension Street Hood.....	225
Cutter's.....	336
American Circular Loom Conduit.....	356
American Heater.....	316
American Standard Wire Gauges.....	396
American Universal Enamel Field Rheostats.....	127, 128
Amidon's Patent Corner Bit Brace.....	396
Ammeters, 135, 240, 244 to 247, 251 to 253, 258, 271, 496.....	155
Arms.....	469
Arms, Portable.....	271
Arms, Wirt.....	271

	PAGE.
Ammeters, Railway.....	251 to 253
Standard.....	245 to 247
Western Electric.....	240
Weston.....	244 to 247
Whitney.....	258
Amperemeters.....	259, 264, 265
Bristol Recording.....	259
Duncan Recording.....	264, 265
Shallenberger.....	264
Anchor Ceiling Rosette.....	68
Anchor Cutouts.....	68
Anchor Flush Plates.....	28
Anchor Sockets.....	91
Anchor Switchblock.....	26
Anchor Switches.....	26, 27
Angle and Corner Insulating Boxes for Iron Armored Conduit.....	339 to 341
Angle K. W. Shade Holder Receptacle.....	96
Annunciator Wire.....	155
Arc Ammeter.....	163
Arc Circuit Meters.....	163
Arc Cutout Boards.....	163
Arc Cutouts.....	158 to 160
Arc Fixture, Cutter Pole.....	169
Arc Hanging Boards, China.....	163
Arc Insulator, Cutter.....	182
Arc Lamp Carbons.....	469 to 474
Arc Lamp Cord, Galvanized.....	489
Arc Lamp Globes.....	177 to 179
Arc Lamp Hangers.....	163, 164, 161
Arc Lamp Hooks.....	164, 165
Arc Lamps.....	191 to 193
Arc Light Line Switches.....	162
Arc Supplies.....	156 to 198
Arc Light Transformers.....	161
Arc Switchboard.....	156
Arc Switchboard Fittings.....	157
Arms, Race.....	193
Armalac.....	412
Arms, Cross.....	183, 454
Arms, Break.....	456, 460
Arms, Mast.....	189, 190

	PAGE.
Arresters, Lightning.....	136 to 138, 160, 179
Arresters, Spark.....	175
Arresters, Static.....	179
Asbestos.....	412
Atmospheric Heaters.....	317
Attachment, Kerosene Lamp.....	291
Attachment, Plug and Receptacle for Brass Armored Conduit.....	352
Attachment Plugs.....	86, 160 to 162, 300
Attachments for Kreuger Theater Lamps.....	192
Attachments, Gas.....	106, 107
Augsurs, Vaughan's Patent.....	474
Automatic Boring Tools.....	395
Automatic Circuit Controlling Switch.....	161
Automatic Magnetic Circuit Breakers.....	55, 56, 58
Automatic Pressure Controller.....	130
Automatic Pulleys, Fletcher.....	185
Automatic Rheostats, Leonard Universal.....	120, 121
Automatic Switch, C. S. Flush.....	22
Automatic Switches, for Electric Motors.....	131, 132
Awning Insulator Tube.....	442
AXES.....	389

B

B. & T. White Porcelain Tubes.....	445
B. E. Bracket Cutouts.....	289
B. E. Rosettes.....	138, 136
B. F. Theater Dimmers.....	407
B. W. H. Tape.....	32 to 34
Baby Knife Switches.....	389
Backs, Bracket.....	399
Bag, Tool.....	175
Bags, Carbon.....	136
Bairdston-Fanning Rheostats.....	288
Ball, Cluster.....	104
Ball Cord Adjuster.....	216, 219
Ball Shades.....	282
Balls, Ceiling.....	450
"Banner Core" Hoisting Rope, Cutter's.....	

	PAGE.		PAGE.		PAGE.
Bar of Peanut Cord Adjuster.....	104	Brush-Swan Attachment Plugs.....	102	China Floor Tubes.....	144
Bare Tinsel Cord.....	493	Brush-Swan Socket.....	100	China Hanging Boards.....	162, 163
Bars.....	374, 375, 389	Brushes, Carbon.....	140	China Insulating Joints, P. & S.....	111
Bases, Lamp.....	249	Bryant Switch.....	139 to 142	China Lead for High Voltages.....	424
Battery Cells, Hard Rubber.....	410	Brushes, W. E. Non-Sparking.....	141, 142	China Sockets.....	97
Battery Fan Motors.....	365	Bryant Bug Cutoffs.....	61	China Switches, P. & S.....	10, 11
Battery Lamps.....	300 to 301	Bryant Chandelier Switch.....	25	China Switch, Ratchet, Double Pole.....	10
Battle Lantern.....	201	Bryant Cleveland Arc Cutoffs.....	105	China Switch, Ratchet, Single Pole.....	10
Bedroom Fixtures.....	282	Bryant Double Pole Switch.....	12	China Wall Socket Receptacles.....	97
Bell Break Arm, Fletcher's.....	440	Bryant-Edison Main and Branch Hooks.....	72	China Wiring Tubes.....	411 to 413
Bell Hanger.....	390	Bryant High Tension Service Switch.....	71	Chisels.....	438
Bell Hanger and Cut-off Switch Combined.....	180	Bryant K. W. Receptacle.....	96	Circuit Breakers.....	55 to 59, 432
Bell Hanger's Gimlet.....	304	Bryant Lock.....	68 to 85, 92	Circuit Boards.....	60, 70, 79, 81
Bell, Tool.....	391	Bryant Paiste Switch, Flush.....	39	Circuit Loom Conduit.....	356
Bend Flame Lamps.....	301	Bryant Porcelain Tablet Board.....	70	Circuit Motors, Arc.....	363
Bergman Switch Connections.....	54	Bryant Receptacles.....	33, 96	Circuit Tester and Ground Detector.....	270
Bergman Switches.....	46 to 53	Bryant Rosettes and Cuts Combined.....	46	Clamp Connections.....	123
Billiard Shades or Reflectors.....	225, 233	Bryant Single Pole Switch.....	10	Clamp Connectors.....	148
Bit Braces, Corner.....	386	Bryant Testing Base.....	96	Clamp, Perfection Desk or Music Rack.....	105
Bits.....	391, 395, 397	Bryant Waterproofer Marine Switch.....	159	Camps.....	148, 377, 378, 385, 386, 389, 389, 457
Block, T. E. Shunt, with Protected Fuse.....	56	Buckles, Turn.....	449, 450	Clark Wire.....	475, 476
Blows, Pulley.....	381	Buffalo Grip.....	378	Clay Tubes, Vitrified.....	445
Blow Lamp, Alcohol.....	405	Bug Cutoffs.....	60	Cleats, Filament Lamp.....	60, 438 to 440
Blow Torches.....	408 to 409	Building Switch, Western Electric.....	158	Cleats, Rosettes, Ceiling Cutoffs.....	430 to 68, 70
Blowers and Exhausters, Direct Connected Electric.....	369	Bug Shades.....	216 to 218	Cleveland Arc Cutoffs.....	158
Board, Richmond Panel.....	69, 70, 73, 81	Bung Hole Lamps.....	297	Clifton Tape.....	407
Boards, Circuit.....	81	Bushings, Lamp Receptacles.....	146	Clippers.....	386, 390
Boards, Distributing Cutoff.....	81	Bus Bar Connections.....	153	Clocks, Crosby.....	457
Boards, Hanging.....	362 to 364	Bus Bar Stands.....	153	Clock Switch, Electric.....	161
Boards, Multiple Cutoff.....	69, 70, 73, 81	Bus Bars.....	153	Clock, Switchboard.....	147
Boiler, Farina.....	309	Bushings, Porcelain.....	444	Closed and Door Switches.....	31
Bolt and Lock, Tile.....	453	Bushings, Copper.....	103, 106	Cloth.....	288
Bolt, Cutout Insulated Suspension.....	455	Bushings, Rubber.....	461	Cluster Balls.....	288
Bolts.....	154	Bushings, Steel.....	461	Cluster Fixture Complete.....	289
Bolts, Switchboard.....	154	Buttons, Ceiling.....	64, 66, 67	Cluster Switches.....	289
Books for Meter Reading.....	267			Cluster Shades.....	228
Boring Tools.....	266			Coe Wrenches.....	357
Bottom Wire Sockets.....	98	C. S. Flush Double Push Switches.....	21 to 23	Cole's Electric Lamp.....	286, 288
Boulevard Lamp Post.....	192	C. S. Flush Switch Accessories.....	24	Cold Heater, Immersion.....	311
Boulevard Street Hood, Cutter.....	226	Cable Glass Insulator.....	422	Cold Chisel.....	398
Bowl Shades, Silver Etched.....	226	Cables.....	476, 478 to 480, 489, 491	Colored Lamps.....	305
Bowling Alley Shades.....	226	Calipers, Micrometer.....	400	Colored Lamp Receptacles.....	305
Box Cluster.....	288	Callipers, Lamp Receptacles.....	400	Columbian Hood.....	237
Boxes for Iron Armored Conduit.....	329 to 331	Candle Lamps.....	301	Columbian Lamp Post.....	137
Boxes for Plain and Brass Armored Conduit.....	349 to 351	Candle Lamps.....	301	Colored Lamp Receptacles.....	305
Boxes, High Potential Fuse Cutoff.....	351	Candle Lamps.....	301	Combination Bracket.....	440
Boxes, Marine Junction.....	199	Cans, Oil.....	414 to 416	Combination Bridge, Rheostat and Galvanometer.....	269
Boxes, Wall.....	24, 102	Cans, Oil.....	414 to 416	Combination Circuit Receptacle, Frink's.....	330
Brace Arm, Cutter.....	183	Cans, Oil.....	414 to 416	Combination Conduit.....	339
Braces.....	396	Cautchouse Wire, Simplex.....	481, 482	Combination Coupling.....	339
Braces, Cross Arm.....	454	Cap, Acorn.....	290	Combination Fixture Cutoff and Outlet.....	433
Bracket, Almond Flexible.....	276	Caps for Iron Armored Conduit.....	324, 328	Combination Gas and Electric Branch.....	336 to 338
Bracket and Portable Adapter.....	281	Car Breakers.....	317	Combination Gas and Electric Side Outlet Boxes for Iron Armored Conduit.....	342
Bracket and Portable Combined.....	281	Car Heaters, Electric.....	317	Combination Handles.....	397
Bracket Backs.....	289	Carbon Bags.....	175	Combination Hot Blast Blow Torch.....	403
Bracket Cutoff, W.....	289	Carbon Brushes.....	140	Combination Hot Blast Furnace.....	402
Bracket Cutoffs.....	289	Carbons.....	169 to 174	Combination Lag Screw and Nut Wrench.....	376
Brackets, Electric.....	275 to 279	Cardboard Shades.....	224, 225	Combination Pay-out Reel.....	376
Bracket, Fan Motors.....	309	Cargo Lantern with Guard.....	204	Combination Reamer.....	351
Bracket, Fletcher Illuminating.....	437	Carpenter Enamel Rheostats.....	118 to 126	Combination Rosettes and Cutoffs.....	63, 65, 66, 68, 70
Bracket Receptacles, Chapman.....	83	Cartwright Paper Waterproof Lamp Shade.....	224	Combination Shade and Holder, Marten.....	226
Bracket Sockets.....	86	Carrying Cases, Wooden.....	228	Combination Shade, Cutter.....	235
Bracket Tubes.....	86	Carrying Hooks.....	373, 389	Combination Soldering Torch, Victor.....	184
Brackets, 154, 274 to 279, 437, 450 to 452, 458 to 465.....	450	Cases for Instruments, Leather.....	345, 358	Combination Windlass, Cutter.....	184
Brackets, Incandescent Street.....	450	Cast Iron Plugs for Iron Armored Conduit.....	324, 328	Combined Exhaust Fans and Lamp Fixtures.....	368, 369
Brady Mast Arms.....	491	Cast Iron Pockets for Anchor Switches.....	27	Combined Instruments and Shunts.....	245
Braided Office Wire.....	491	Cedars, Round.....	456	Combined Parallel and Cutting Filers.....	384
Branch Blocks.....	60 to 70	Cedding Brackets, Malleable Iron.....	64, 66	Combined Portable and Bracket.....	281
Branch Circuit Junction Boxes for Iron Armored Conduit.....	332 to 334	Cedding Clusters.....	283, 284	Come-along.....	391
Branch Circuit Junction Boxes for Plain and Brass Armored Conduit.....	349 to 352	Cedding Outlets.....	336 to 338	Common Reel.....	391
Branch Cutoffs.....	69, 71 to 73	Cedding Fan Motors.....	361, 367	Commutation Switch, C. S.....	22
Brass and Plain Covered Conduit, Branch Circuit Junction Boxes.....	349 to 352	Cedding Fixtures, Ornamental.....	282	Commutator Compound.....	407
Brass Armored Conduit.....	339, 344 to 348, 352	Cedding Globes and Balls.....	282	Competition Tape.....	410
Brass Armored Conduit Couplings.....	348	Cedding Hook, Cutter.....	181	Composition Bushings.....	103, 106
Brass Armored Conduit Elbows.....	345 to 347	Cedding Outlet Boxes for Iron Armored Conduit.....	338	Compound, Chatterton's.....	407
Brass Brackets with Bushes.....	452	Cedding Rosettes, or Cutoffs.....	63 to 68, 70	Compound Electric, Klein's.....	378
Brass Bushings.....	452	Cedding Shades.....	225	Compound, Splicing.....	407
Brass Covered T's.....	345	Century Tape.....	407	Concealed Ceiling Fans and Cutoffs.....	443
Brass Engineers' File.....	352	Chafing Dish, Electric.....	308	Concentric Lamp.....	185
Brass Fittings.....	290	Chaffing Dish, Electric.....	308	Conducting Cords, Copper.....	453
Brass Lineman's Torch.....	406	Chaffing Dish, Electric.....	308	Conduit and Conduit Fittings.....	321 to 323
Brass Oil Cans.....	415	Chaffing Dish, Electric.....	308	Cone Lamps.....	224 to 227
Brass Wire Cleats.....	416	Chaffing Dish, Electric.....	308	Cone Shades.....	223
Braziers, Hot Blast Blow Torch.....	403	Chandler Cutout, Anchor Covered.....	61	Cone Tin Shades.....	223
Break Arms.....	458, 460	Chandler, Frink's Suspended Reflect.....	231	Connections, Bus Bar.....	152
Break Knobs, Glass.....	201	Chandler Loops, Iron.....	107	Connections, Clamp.....	152
Brewers Lamp Guard.....	201	Chandler Switch, Bryant.....	35		
Brick Drills.....	398	Chandler's Hood.....	410		
Bridge and Rheostat.....	267, 268	Chapman Receptacles.....	102		
Bridge, Wheatstone.....	259, 260	Charcoal Soldering Furnace.....	402		
Bristol Recording Instruments.....	259, 260	Charts, Meter Rate.....	402		
Broiler, Electric.....	318	Chatterton's Compound.....	407		
Brown Duplex Branches.....	451	Chicago Fuse Repair Kit.....	380		
Brown Duplex Pins.....	451	China Cleats.....	438, 439		
Brun's Regulating Socket.....	143	China Cross-over Tubing.....	441		
Brunt Copper.....	143				

	PAGE.
Dimmers, Theater	136, 137, 138
Direct Connected Electric Blowers and Exhausts	304
Direct Duplex Attachment Outlets	260
Direct Current Ammeters	240, 242 to 247, 251 to 253, 258, 271
Direct Current Armature Motors	250
Direct Current Instruments	240 to 263, 266 to 271
Direct Current Voltmeters	240 to 243, 248, 250 to 253, 257, 271
Direct Current Wattmeters	260 to 263, 266
Direct Reading Mill Ammeters and Amperes	244
Direct Reading Voltmeter, Weston Standard Portable	241, 242
Disc and Adjustable	115
Disc Heaters	115
Disc meeting Plug	157
Distributing Boards	81, 82
Drainage Connections	102 to 103
Door Switch	31
Double Break Arm	458, 460
Double Breakout Waunepator Wire	424
Double Cotton Covered Magnet Wire	424
Double Grove Glass Insulator	423
Double Petrolins Insulators	418 to 421
Double Pole Break Arm, Fletcher	261
Double Pole Anchor Switches	426
Double Pole Switch, 500 Volt	78
Double Pole Cutoff Switch	69
Double Pole Toggle Switch	79
Double Silk Covered Magnet Wire	487
Double Steel Splicing Wrench	385
Double Steel Electroproof Pole Pulley Fletcher	186
Dovetail Rosettes	64, 65
Draw Adjustable	105
Draw Knives	395
Drill Bit	186
Drills, Brick	355
Drill Sockets, Malleable Iron	358
Drivers, Staple	358
Duckneck Bracket	174
Drive Fuse Plugs	438, 464
Dumb Bell Cord Adjuster	263
Dummy Plugs	102
Duncan Recording Ammeters	264, 265
Duplex Reading Wattmeters	457
Duprod, Iron	452
Duprod Brackets, Brown	457
Duprod Curving Wattmeters	457
Duprod, Duprod	452
Duprod Glass Insulator, Pony	419
Duprod Perfection Guards	239
Duprod Plugs, Brown	451
Duprod Plug, Brown, Fletcher	451
Dynamo Brushes	139 to 142
Dynamo Switch	46
Dynamos, Plating	371
E	
Eastern Climbers	386, 393
Eccentric Brackets, Dicke	350
Eccentricities	377 to 379, 381, 382
Economic Flux Bath	365
Economic Insulators	101
Edison Attachment Plugs	421
Edison Flush Pocket Switches	14
Edison Fuse Plugs	38
Edison Iron Stage Box	18
Edison Key and Keyless Lamp Receptacles	98
Edison Link Fuse Cutoffs on Porcelain Bases	73 to 75
Edison Plug Cutoffs	75, 76
Edison Porcelain Waterproof Sockets	315
Edison Receptacles	88, 94, 95
Edison Snap Switches	14 to 16
Edison Plug Plug	76
Edison Sockets	84 to 88, 94, 95
Elbow Nozzle	290
Elbows for Brass Armored Conduit	344 to 347
Elbows for Iron Armored Conduit	323, 326, 327
Elbows for Plain Conduit	353, 354
Electric Chain Couplings	174
Electric Carbons	319
Electric Air Heaters	319
Electric Blowers and Exhausts, Direct Connected	304
Electric Bracket Backs or Wall Plates	280
Electric Brackets	275 to 279, 281
Electric Cables	318
Electric Chaffing Dish	161
Electric Clock Switch	301
Electric Cluster Reflectors, Frink's Electric Lamp	230, 231
Electric Curling Iron Heaters	310, 319
Electric Foot Warmer	314
Electric Plug	322
Electric Heater, Portable	318

[illegible]

	PAGE.		PAGE.		PAGE.
Incandescent Arc Lamps	191 to 193	K. W. Rosettes	63, 64	M	
Incandescent Lamp Cord	490, 490	K. W. Main and Branch Cutouts	77	Macallen Solid Mica Insulating Joints	109 to 111
Incandescent Lamp Sockets	255 to 300	K. W. Recorders	96	Machine Bolts	453 to 455
Incandescent Street Brackets	400	Kelsh Arc Hangar Board	164	Magnetic Circuit Breakers, Automatic	55
Incaised Wire	478	Kerite Tape	407	Main and Branch Blocks, Bryant, Edison	71
Indestructible Insulator Pin, Locke	452	Kerite Wire	474 to 474	Main Block, Sawyer, Man, F. S.	70
Indicator, Current Direction	125	Kerosene Lamp Attachment	98	Main Line Cutouts	69
Indicator, Potential	249	Kester's Commutator Compound	408	Main Junction and Terminal Boxes for	629
Indicators, Speed	272, 273	Key and Keyless Lamp Receptacles	98	Main Line Armored Conduit	77
Indicator, Switch	335	Key Sockets	83 to 85, 87 to 91, 97 to 100, 199	Main Line Fuse Blocks	157
Inspectors' Pattern Voltmeter	256	Key Switches	23, 27	Malleable Iron Break Arms	212
Inspectors' Tools	357	Key Switches, Edison	87	Malleable Iron Ceiling, and Drive Brack-	458
Instrument, Alternating Current	257 to 265, 271, 406 to 408	Keyless Receptacles	88, 89 to 98	Malleable Iron Pins	458
Instruments, Direct Current	155, 240 to 242	Keys, Reversing	243	Manilla Rope	385
Instruments, Wagner Switchboard	404 to 498	Kinsman Desk Light	248	Maple Leaf Shade, Rough Etched	212
Insulated Cross Arm	183	Kinsman Portable	241	Marine Desk Lamp	306
Insulated Cross Arm Bolt, Cutter's	452	Kitch, Chicago Fuse Repair	380	Marine Fixtures	292 to 296
Insulated Wire Risers	438	Klein's Lamp and Recorders	370	Marine Lanterns	201 to 204
Insulated Turn Buckle, Cutter's	450	Klein's Plain Eccentric	385	Marine Receptacles	200
Insulating Hangers, Fletcher	434	Klein's Splicing Clamps	385	Marine Sockets	199
Insulating Boxes, Corner	339 to 341	Knife Blade Switch	32 to 33	Marine Switches	199, 200
Insulating Elbows for Iron Armored Conduit	327	Knives, Draw	306	Marine Wall Brackets	204, 205
Insulating Iron Pin and Bracket, Fletcher	327	Kreuger Theatre Arc Lamp	192	Marine Combination Shade and Holder	202
Insulating Joints	109 to 111			Mast Arm Pulley, Cutter's	187
Insulating Nipples for Iron Armored Conduit	328			Mast Arms	189, 190
Insulating or Break Arms, Glass	423, 424			Mast Arms, Edison	24
Insulating Pins, Saddle Stages	412			McCreary Receptacles	187
Insulator, Cutter Arc	182			McIntire Patent Wire Connectors	449
Insulator, Cut Revolute	181			McIntire Twisting Clamps	386
Insulator, Edison	182			Metal Boxes for Switch Boxes for Brass Armored Conduit	357
Insulator Pin, Locke Indestructible	452			Measuring Instruments	155, 240 to 273, 406 to 498
Insulator Tube, Awning	442			Medium Horse Shoe Conduit	61
Insulators	181, 182, 417 to 438, 442, 444, 445			Melon Bulb Shade, Twist	212
Insulators for High Voltages	424			Mercury Contact Circuit Breakers	57
Insulators, Glass	417 to 434			Metal Boxes for Junction Boxes for Brass Armored Conduit	357
Insulators, Porcelain	423 to 438			Metal Covers for Junction or Outlet Boxes for Iron Armored Conduit	343
Insulators, Tree	434			Metal Dipping Cup	108
Insullac	412			Metal Half Shades	225, 226
Interchangeable Pulley, Cutter's	188			Metal Shades with Combination Holder	226
Interlocking Switchboard for Theatre Lighting	134			Metal Half Shades with Wire Guard	226
Interlocking of Splicing Boxes	331			Metal Shade Reflectors	225 to 227
Iron Armored Conduit	321, 325, 339			Meter and Wire Reel	392
Iron Armored Conduit, Branch, Junction	343			Meter, Charts and Books	392
Iron Armored Conduit Tools	343			Meter for Alternating Current, Shallenberg	394
Iron Armored Elbows	322, 323, 326, 327			Meter, Counter, Wire	397
Iron Armored Elbows, Switch	343			Meter Sealing Tools	397
Iron Chandelier Loops	107			Mica	411
Iron Clad Fan Motor	365			Mica Covered Bryant-Edison Main and Branch Blocks	71
Iron Clad Fan Motor	107			Mica Dust Protector	229
Iron Dupped	107			Mica Insulating Joints, Macallen	109 to 111
Iron Handles for Drill Bits	335			Mica Lamp Sockets, Moulded	89
Iron Pin and Bracket, Fletcher's Insulation	437			Micrometer Calipers	400
Iron Pins, Solid	431			Microt Cutouts	69
Iron Pockets for Switches	381			Mild Steel Pipe Tubes	444
Iron Pole Support	375			Mil Ammeters	244
Iron Stage Box, Edison	98			Mil Voltmeters	244
Iron Tripod	107			Mil Voltmeters, Automatic	399 to 400
Iron Wall Box Switches	214			Miniature Lamp Receptacles	307
Iron Wall Boxes for Chapman Receptacles	214			Miniature Lamp Shades	306, 307
Iron Wire, Triple Braid Weatherproof	102			Minis, Fuses, Simplex Cautious	442
Irons, Electric	313, 314, 319			Mirror Reflectors	228, 233
Irons, Soldering	253			Miscellaneous Material for Brass Armored Conduit	359
Isolated Plant and Feeder Ammeters, Weston Railway	353			Miscellaneous Metal Shades	225, 226
Isolated Plant and Feeders Voltmeters, Weston Railway	250			Model Oil Filter	414
Isolating Switch for Arc Circuits	162			Monkey Wrenches	387
				Motors and Drives	371
Japaned House Brackets	401 to 465			Motors and Dynamos, Lundell	416
Japaned Wall Plates	462			Motor Cutout Covered	69, 78, 80, 81
Jenny Pole Support	375			Motors, Starting Boxes	114 to 117, 119, 120

Multiple Cutout Boards.....	69, 70, 72, 81, 82
Multipliers for Voltmeters.....	255

N

Nail Hammers.....	388
Non-Insulating Pony Double Petticoat Glass Insulators.....	413
Nary Signal Lamps.....	249
Nets, Globe.....	172
New Patterns in Standard Shades.....	219
New Style Cutout.....	69
New Suburban Hood.....	237
No. 10 Wire Switch.....	30
Nipple, Curved.....	279
Nipples, Fixture.....	290
Nipples, Insulating for Iron Armored Conduit.....	324, 328
Non-sparking Brushes, Western Electric.....	141, 142
Norway Pine Poles.....	456
Novelty Pocket Screwdrivers.....	394
Nozzles.....	290
No. 1 Sockets, Bryant.....	83, 85
No. 2-A Sockets, Bryant.....	84
No. 3-B Sockets, Bryant.....	84, 85
Nursery Iron.....	319
Nut Wrenches.....	387

O

Oak Pins.....	451
Octagonal Pole.....	451
Office Cables.....	491
Office Wire, Braided.....	414
Oil Cans.....	415, 416
Oil Cans, Galvanized Waste.....	414
Oil Filter.....	414
Oil Insulator, Glass.....	422
Oil Sets.....	416, 418
Oilers, Locomotive.....	416
Okonite Tape.....	407
Okonite Tubing.....	416
Okonite Wire.....	270, 471
Old Style Plugs.....	157
Opal Shades.....	285
Ornamental Bedroom Fixtures.....	505
Ornamental Brackets.....	277
Ornamental Ceiling Clusters.....	283
Ornamental Ceiling Fixtures.....	282
Ornamental Electric Portables.....	281
Ornamental Moulding.....	448
Ornamental Pendant Fixtures.....	285
Overload and No Voltage Rheostat.....	120
Overload and Underload Circuit Breaker.....	57
Outlet Boxes for Iron Armored Conduit.....	342
Outlet Elbows for Brass Armored Conduit.....	346
Outlet Elbows for Iron Armored Conduit.....	323, 327
Outlet Insulators.....	433
Outlet or Switch Box for Iron Armored Conduit.....	342
Outrigger, Cutter.....	149
Outs de Reamer.....	355

P

P. & B. Paint.....	412
P. & S. All China Junction Boxes and Motor Cutouts.....	372
P. & S. China Hanging Boards.....	162, 163
P. & S. China Insulating Joints.....	111
P. & S. China Sockets.....	97, 98
P. & S. China Switches.....	10, 11
P. & S. Circuit Breakers.....	432
P. & S. Cleats.....	438, 439
P. & S. Cutouts.....	67, 69
P. & S. Guard Wire Suspension Insulator.....	432
P. & S. Rosettes.....	64 to 67
P. & S. Sawyer-Man Main Block.....	79
P. & S. Wiring Insulator.....	111
P. & S. Tree Insulator.....	434
Packin House Lamp Cord, Special.....	430
Bad, Electric Heating.....	510
Paddock, Fletcher's Pole.....	182
Paints, Insulating.....	412
Palste Bryant Switches.....	9, 14, 20
Pancake Grids.....	315
Panel Board, Richmond.....	495
Paper Waterproof Lamp Shades, Cartwright.....	254
Para Splicing Compound.....	207
Parabolic Reflector.....	344
Paragon Tape.....	281
Parallel Pliers, Bernia.....	378
Parallel Screw Clamp.....	378
Parallel Wire Stretchers.....	379, 380
Partition Bracket.....	275

PARTS FOR TORCHES.....

Paste, S. S. Soldering.....	401
Patent Augers, Vaughan's.....	374
Patent Branch Block, Seymour's.....	79
Patent Corner Bit Braces, Almidon's.....	368
Patent Pliers.....	382
Patent Reflectors, Frink's.....	229 to 232
Patent Wire Connectors, McIntire.....	449
Pattee's Lamp Hour Recorder.....	176
Pear Shaped Lamps.....	255
Pear Elched Shades.....	113
Peeler, Wire.....	364
Pendants.....	285
Pendants, Wire.....	285
Perfection Desk or Music Rack Clamp.....	145
Perfection Lamps.....	239
Perkins Flush Plates.....	19
Perkins Sockets.....	89, 90
Perkins Switches.....	12, 13, 21, 25
Permanent Pin Break Arms.....	458
Perru Cutouts.....	239
Pette Pulley and Hood, Cutter's.....	66
Pike Poles.....	375
Pilot House Projector.....	184 to 186
Pin, Fletcher Insulating Iron.....	337
Pin Poles.....	456
Pin Puller.....	494
Pins.....	451, 452, 458, 459
Pipe Cutters.....	343, 397
Pipe Wrench, Shelly.....	358
Plain and Brass Covered Conduit Branch Circuit Junction Boxes.....	349 to 352
Plain Braces.....	396
Plain Conduits.....	433
Plain Hall Fixtures.....	285
Plain Rosette, No Fuse.....	217
Plain Shade, Houghed Inside.....	407
Plain Standard Portables.....	250
Plates, Wall.....	289, 462
Platinum Wire.....	492
Pliable Cord.....	433
Pliers.....	382 to 384
Plug Cutters.....	75, 76, 78, 456
Plugs and Receptacles for Brass Armored Conduit, Attachment.....	502
Plugs, Conduit.....	398
Plugs, Cast Iron for Iron Armored Conduit.....	3, 4, 328
Plugs, Lamp Adapters.....	98, 100 to 102
Plugs, Disconnecting.....	107
Plugs, Dummy.....	102
Plugs for Arc Circuits.....	157
Plugs, Edison.....	493
Pockets for Anchor Switches, Cast Iron.....	27
Pocket Screwdrivers, Novelty.....	34
Pocket Switches, Edison.....	14
Pole Bits.....	394
Pointed Soldering Coppers.....	401
Pole Arc Fixture, Cutter.....	189
Pole Counter or Tally Register.....	399
Pole Hole Shovels and Spoons.....	373, 374
Pole Lock, Cutter.....	182
Pole Paddock, Fletcher's.....	182
Pole Pulleys.....	186, 187
Pole Steps.....	457
Pole Supports.....	375, 380
Poles.....	456
Poles, Pipe.....	375
Polish, Hoffman's Rod.....	458
Polished Brass Armored Conduit.....	352
Polished Brass Fixture Bushings.....	163
Polishing Irons.....	313, 319
Pony Double Petticoat Insulator.....	418, 419
Pony Glass Insulators.....	418, 419, 421
Pony Receptacle.....	96
Pony Telephone Pins, Western Union.....	44
Porcelain Bushings.....	444
Porcelain Ceiling Buttons.....	64 to 67
Porcelain Cleats.....	438
Porcelain Covered Bryant-Edison Fuse Blocks.....	72
Porcelain Insulators.....	45 to 454
Porcelain Key Lock, Receptacles.....	418
Porcelain Sockets.....	37, 92 to 98, 100
Porcelain Knobs.....	425 to 433
Porcelain Lamp, E. & T.....	280
Porcelain Shades.....	207, 208
Porcelain Socket Rings.....	106
Porcelain Table Board, Bryant.....	70
Porcelain Tapered Bracket.....	432
Porcelain Window Tubes.....	441, 442
Porcelain Wire Holders.....	437, 438
Portable Bracket, Adjustable.....	281
Portable and Bracket, Combined.....	281
Portable Electric Heaters.....	311, 318
Portable Electric Ornament.....	281
Portable, Flexible.....	280
Portable Galvanometer, Weston.....	270
Portable Instruments.....	241, 242, 244, 245, 246 to 258, 246 to 271

PORTABLE, KINSMAN.....

Portable Lamp Guards.....	230, 231
Portable, Plain Standard.....	280
Portable, Tachometer, Standard.....	273
Portables, Desk.....	280, 281
Portables, Fixture.....	280, 281
Porter's Wire Cutters.....	397
Post Hole Diggers, Gunter.....	198
Post Office Bridge and Rheostat.....	267
Posts, Fuse.....	149
Posts, Lamp.....	187, 193
Post, Electric Glue.....	312
Potential Indicators.....	249
Pots, Solder.....	406
Power Motor, Alternating Current.....	371, 503
Power Transmission Transformers.....	500, 501
Powdered Soapstone.....	355
Pressure Controller, Automatic.....	130
Pressure Reducing Transformers.....	497
Prism Lamps.....	397
Projectors and Search Lights, Rushmore.....	194 to 196
Protected Terminal Fuses.....	56
Protector, Mica Dust.....	223
Pull Sockets.....	84
Pulley Blocks.....	381
Pulleys, Sleepproof.....	165 to 183
Pulleys, for Iron Armored Conduit.....	331, 332
Palmit Hand.....	233
Push Button Switches.....	16, 20, 37

Q

Q. & S. Cord Adjuster.....	104
Quadrant Cutout.....	60
Queen Decade Testing Set.....	270
Queen Instruments.....	270, 271
Queen Wire Ammeters and Voltmeters.....	271
Quick Break Western Electric Knife Switches.....	37

R

Radiant Fluted Shade.....	222
Radiant Lamps.....	108
Rae Store Reflector.....	176
Railroad Oilers.....	416
Railroad Ammeters and Voltmeters.....	253
Railway Double Petticoat, Deep Groove Glass Insulator.....	421
Railway Lamps.....	296, 305
Raising Forks.....	306
Ratchet Braces.....	336
Ratchet Double Pole Switch.....	10
Ratchet Screw Driver.....	334
Raven C. R. Wire.....	468, 469
Reamer Butt for Iron Armored Conduit.....	343
Reamers.....	355
Receptacles.....	96
Reel, Angle.....	96
Reel, Bryant.....	93, 96
Reel, Candelabra Lamp.....	306
Reel, Chapman.....	102
Reels, Edison.....	88, 94, 95, 98
Reel for Conduit Branch Blocks for Brass Armored Conduit.....	352
Resistible Wall Socket.....	84 to 98
Revolving Lamp.....	206
Revolving Lamp.....	307
Revolving Lamp.....	97, 98
Revolving Lamp.....	96
Revolving Lamp.....	93
Search Light.....	200
Shadeholder.....	98 to 96
Shade.....	98, 100
Testing Base.....	96
Waterproof or Waterproof.....	98
Recorder, Pattee's Lamp Hour.....	176
Recording Amperemeter, Bristol.....	250
Recording Instruments, Bristol.....	250
Recording Meters, Duncan.....	264, 265
Recording Wattmeters.....	260, 261 to 263, 265
Recording Voltmeters, Bristol.....	260
Red Core Wire, Habirshaw.....	466, 467
Reel and Meter, Wire.....	392
Reels.....	376, 391, 392
Reflector, Fan Hour.....	176
Reflector, Rae Store.....	176
Reflectors.....	220 to 224, 226 to 237
Register, Counter, Pole or Tally.....	217, 420
Regular Glass Insulators.....	29
Regulating Sockets.....	29
Regulator, Combined Starting Box and.....	116
Removable Pin Break Arms.....	458
Repair Kit, Chicago Fuse Kit.....	380
Repair Kit for Torches.....	404
Resistance Wire, German Silver.....	496

	PAGE.
Return Elbows for Brass Armored Conduit.....	347
Reversing Controllers.....	117, 121, 122
Reversing Keys.....	243
Revolute Insulator, Cutter.....	181
Rheostats.....	114 to 129, 133 to 136
Rings, Socket.....	112
Richmond Panel Boxes.....	495
Richmond Plug Cutout.....	195
Richt. Cut Shades.....	214 to 220
Right Rotating Socket.....	106
Rigid Ball Joint, 45 degrees.....	274
Ring, Extension.....	291
Rings, Hard Rubber.....	110
Risers, Insulated Wood.....	436
Rod Polish.....	408
Rods, Hard Rubber.....	406
Rods, Vulcanized Fiber.....	410
Rod Brackets.....	459
Rope.....	182, 459
Rosette and Cleat Combined, Bryant.....	66
Rosettes.....	
Anchor Ceiling.....	68
B. E.....	70
Ceiling Rosette with Cap. P. & S.....	66
Cleat.....	63, 64, 66 to 68, 70
Combination.....	63, 65, 66, 68, 70
Concealed.....	63, 64, 66 to 68, 70
Dovetail.....	64, 65
E. F. Leese.....	64, 65
High Insulation Ceiling Button.....	66
Imperial.....	66
K. W. Celeg.....	63, 64
Moulding W. K.....	68 to 66, 68, 70
P. & S.....	64 to 67
Plain Fuse.....	67
Rough Etched Maple Leaf Shade.....	214, 217
Roughened Inside Shade.....	214, 217
Round Cedar Poles.....	456
Round Long Nose Pliers.....	383
Round Miniature Lamp Receptacles.....	307
Rubber Battery Cells.....	410
Rubber Covered Midgut Cutout.....	69
Rubber Gaskets.....	408
Rubber Gloves.....	408
Rubber Handles for Pliers.....	384
Rubber Leds, Feet.....	410
Rubber Sheet.....	408
Rubber Socket Bushings.....	106
Rubber Tubing.....	411, 418
Running Pulley, Cutter.....	182
Rushmore Projectors and Search Lights.....	194 to 196

S

S. S. Soldering Paste.....	401
Saddle Staples.....	452
Safety Fuse Blocks.....	80
Safety Lamp Support, Flecker.....	185
Safety Steel Pliers.....	382
Safety Windlass.....	184
Safety Wire.....	477, 478
Safety Wire Holder.....	432
Sampson Friction Tape.....	407
Samson Cordage.....	489
Saws.....	386
Sawyer-Man Cutouts.....	76 to 79
Sawyer-Man Flat Lead Links.....	113
Scales, Instrument.....	498
Scalloped Silvered Shade.....	222
Scheffer's Recording Wattmeter.....	283
Scissors, Electricians.....	394
Scissors, Soldering.....	370
Screw Clamp, Parallel.....	378
Screw Wrenches.....	380, 387, 390
Seal Drivers.....	391, 393, 394
Sealing Tools, Meter.....	267
Seals, Lead.....	267
Search Light Support, Branch Box.....	112
Search Lights, Rushmore Projector.....	194 to 196
Searchlights for Electric Railway.....	196
Secret Nozzle.....	250
Sectional Electric Cluster Reflectors.....	
Frank's.....	230, 231
Security Insulator.....	433
Self-tying Ceiling Button.....	438
Separable Box and Ball Clusters.....	288
Series Lamp, Special.....	300
Series Lamp, Standard.....	300
Shade and Holder, Master Combination.....	106
Shade Holder for Cattle Lights.....	106
Shade Holder Receptacles.....	306
Shade Holders.....	106, 223
Shades with Colored Edgings for Miniature Lamps.....	203, 207 to 235
Shallenberger Meters.....	267
Shawmut Copper Terminals.....	114
Shawmut Fuse Wire.....	114
Shawmut Specially Designed Fuses.....	114
Shawmut Tested Fuse Links.....	113

Sheet Brass Clips for Brass Armored Conduit.....	348
Sheet, Fiber and Rubber.....	409
Shelf Brackets.....	275
Short Shell Sockets.....	83
Shovels.....	373, 374
Shunt Block with Protected Terminal.....	56
Shunts for Illuminated Dial Station Amp.....	245, 247
Side Brackets.....	382, 383
Side Cutting Pliers.....	382, 383
Side Outlet box for Iron Armored Conduit.....	342
Side Wire Sockets.....	92
Signal Lantern Navy.....	403
Silk Covered German Silver Resistance Wire.....	486
Silk Covered Incandescent Lamp Cord.....	489, 490
Silver Etched Shades.....	214, 215, 219, 220
Silver Plated Mirror Reflectors.....	228, 232
Silvered Glass Reflected over.....	221 to 223
Silvered Scalloped Shade.....	222
Simplex Tape.....	407
Simplex Glass Insulator.....	479 to 482
Simplex Wire.....	482
Single Cotton Covered Magnet Wire.....	453
Single Phase Alternating Power Motors.....	453
Single Pole Cutout, 500 Volts.....	89, 93, 95
Single Silk Covered Magnet Wire.....	453
Sleepproof Pulleys.....	185 to 188
Sleeving Cotton.....	358
Snapstone, Powdered.....	103
Socket Bushings.....	103, 106
Socket for Series Incandescent Lamps.....	82
Socket Framing Chisel.....	398
Socket Handles.....	104, 239
Socket Kings.....	106
Sockets.....	
Anchor.....	91
Bottom Wire.....	92
Brush-Swan.....	100
Bryant.....	83 to 85, 92, 93
Edison.....	85 to 88
Electrolier.....	86
Extra Long Key.....	84
Fixture.....	352
For Conduit Branch Boxes.....	352
For High Candle Power Lamps.....	88
For 7 1/2 P. P.....	85, 90
Fusible Wall.....	85, 90
Key.....	83 to 85, 87 to 91
Moulded Mica.....	97
P. & S.....	97
Perkins.....	89
Pull Sockets.....	84
Regulating.....	92
Side Wire.....	99
U. S.....	85, 87 to 91, 97
Wall.....	85, 87 to 91, 97
Weatherproof or Waterproof.....	87
Westinghouse.....	83 to 85, 89 to 91
Soft Rubber Bushings.....	103
Soft Rubber Socket Cover.....	106
Soft Rubber Tubing.....	411
Solder.....	401
Solder Ladies.....	406
Soldering Apparatus and Supplies.....	401 to 406
Soldering Coppers, Pointed.....	406
Soldering Furnaces.....	402
Soldering Pliers.....	320
Soldering Paste, S. S.....	406
Soldering Pots.....	406
Soldering Torch, Western Electric.....	401
Soldering Stick.....	406
Soldering Torches.....	402 to 406
Solid Brass Cutout.....	109 to 112
Solid Iron Pins.....	451
Solid Mica Insulating Joints.....	109 to 112
Solid Pin Break Arm, Malleable Iron.....	458
Solid Steel Pliers.....	382
Small Arc Circuit Cutout, F. V.....	160
Smoothing Irons, Electric.....	318, 319
Snake Brand Insulator.....	274
Snap Rope, Cutter's Trimmers.....	182
Spark Arresters.....	175
Special Corded Insulator.....	429, 430
Special Elbows for Brass Armored Conduit.....	347
Special End Holders.....	347
Special Packing House Lamp Cord.....	430
Special Patent Window Reflectors.....	232
Frank's.....	232
Series Lamp.....	300
Special Series Lamp.....	300
Special Shade Holder Receptacles.....	33, 94

Special Shelf Bracket.....	PAGE. 85
Specially Designed Fuses.....	114
Speed Controller, Ventilating Fan.....	122
Speed Indicator.....	272, 273
Speed Regulator.....	113
Sphere Lamps.....	303, 305
Spiral Corrugated Shades.....	222, 223
Splitting Box for Iron Armored Conduit.....	331, 332
Splitting Clamps for Connectors.....	385, 386, 390
Splitting Conduits.....	382
Splitting Pliers.....	382
Splitting Tool.....	390
Splitting Wrench, Double Steel.....	387
Split Canopies.....	426, 432, 444
Split Insulators.....	374
Spoons.....	374
Spreader Brackets.....	459
Spreader, Cutter Featherweight.....	183
Spring Starters for Motors.....	119, 120
Springjack, Improved.....	157
Spud, Electric.....	380
Spurs.....	386, 390
Square Base Rosettes for Moulding Work.....	63, 65, 66, 68, 70
Square Miniature Lamp Receptacle.....	307
Square Box, Edison, Iron.....	264
Stage Receptacles.....	217 to 219
Stalactite Shades.....	217 to 219
Standard Deep Groove Glass Insulators.....	420
Standard Direct Reading Mill Ammeters.....	94
and Ammeters, Weston.....	244
Standard Cross Arm.....	454
Standard Edison Receptacles.....	85 to 88
Standard Edison Sockets.....	85 to 88
Standard Glass Insulators, Hemmings.....	83
Standard No. 1 Sockets, Bryant.....	83
Standard Pins, Western Union.....	451
Standard Portable Direct Reading Voltmeters.....	241, 242
Standard Portable Tachometer.....	280
Standard Portable Voltmeters.....	273
Standard Round Candelabra Receptacles.....	306
Standard Street Hood, Cutter's.....	236
Standard Swing.....	279
Standard Waterproof Receptacles, Edison.....	95
Standard Wire Gauges.....	153
Standard Bus Bar.....	353
Standard Drivers.....	391, 393, 394
Standard Staps.....	355
Standard Staps, Saddle.....	355
Standard Shades with Colored Edgings.....	306
Star Soldering Sticks.....	401
Starling Boxes, Motor.....	169
Static Arresters.....	179
Station Ammeters.....	245 to 247
Station and Workmen's Supplies.....	407 to 416
Station Testing and Measuring Instruments.....	240 to 273, 496 to 498
Station Switches.....	41 to 46
Station Voltmeters.....	288, 299
Stationary Arc Lamp Hangers.....	163, 164
Stationary Electric Car Heater.....	317
Stationary Hanger Board.....	169, 164
Steam Tight Globe.....	202, 203
Steel Cross Arm Braces.....	454
Steel Engineers' Pliers.....	415
Steel Lag Screw Wrench.....	387
Steel Oil Cans.....	415, 416
Steel Pliers.....	382, 383
Steel Rail Road.....	483
Steel Splicing Wrench.....	387
Steel Tie Wrench.....	387
Steel Wire Straps.....	429, 430
Steps, Pole.....	401
Step Pan, Electric.....	309
Store Reflector.....	175
Stove, Electric Portable.....	311
Straight Flame Lamps.....	301
Straight Nozzle.....	382
Straight Rib Reflectors.....	221
Stranded Conductors.....	466 to 469, 471, 474 to 482
Street Brackets.....	189, 430
Street Hood Socket, Cutter's.....	91
Street Hoods.....	233 to 237
Street Lamp Post, Columbian.....	197
Street Railway Insulator.....	424
Street Railway Lamp.....	296
Stretching Wire.....	378 to 389
Stub's Pliers.....	377
Stub's Vises.....	377
Style H Station Switches.....	39, 40
Sunbeam Incandescent Lamps.....	235 to 240
Suspension Bolt.....	450
Swan Brackets.....	278
Swing Brackets.....	278
Swing Standard.....	429
Swinging Arc Fixture, Cutter's.....	189
Swinging Ball Lightning Arrestor.....	196

	PAGE		PAGE		PAGE
Waste Cans, Galvanized Oil	414	Westinghouse Sockets and Receptacles	83 to 85, 89 to 93, 96 to 100	Wire, Connectors	150, 151, 449
Waterproof Marine Switch, Bryant	199	Weston Circuit Tester and Ground Detector	270	Wire Cutters	397
Waterproof Paper Lamp Shade, Cartwright	224	Weston Direct Current Voltmeters	254 to 256	Wire, Fishing	335
Weatherproof Globes	238	Weston Illuminated Dial Station Ammeters	245 to 247	Wire, Fuse	112
Weatherproof Sockets and Receptacles	67, 89, 92 to 98, 100	Weston Illuminated Dial Station Voltmeters	248, 249	Wire Guards	292, 239
Weatherproof Wire	487, 488, 491	Weston Portable Galvanometer	270	Wire Holders	153, 432, 434 to 438
Wellington Torch	402	Weston Portable Standard Voltmeters for Alternating and Direct Current Service	254 to 256	Wire Meter for Counter	392
Wertheim, Carbons	174	Weston Portable Wattmeters	265	Wire Peeler	394
Western Climbers	386, 390	Weston Potential Indicators	249	Wire Reel and Motor	392
Western Electric Ammeter	240	Weston Railway Isolated Plant and Feeder Voltmeter	250	Wire Stretchers	378 to 380
Western Electric Arc Lamps	193	Weston Standard Direct Reading Mill Ammeters and Ammeters	244	Wire Terminals	151, 152
Western Electric Building Switch	158	Weston Standard Portable Direct Reading Voltmeter	241, 242	Wire Tool, Howe's Improved	390
Western Electric Company's Heater	316	Wheatstone Bridge	269	Wiring Insulators	431
Western Electric Constant Potential Arc Lamp	191	White Core Wire, Grinshaw	468	Wiring Pendants, Fletcher's	437
Western Electric Fan Motors	358 to 364	White Core Wire, Habirshaw	466	Wiring Tubes, China	441 to 443
Western Electric Knife Switches	35 to 37	White Core Wire, Safety	479	Wood Attachment Plugs	100, 101
Western Electric Mast Arms	199	White Porcelain Tubes, B. & T.	445	Wood Cleats	440
Western Electric Non-Sparking Brushes	141, 142	Whitney Ammeters and Voltmeters	257, 258	Wood Handle Tamping Bars	389
Western Electric Quick Break Knife Switch	37	Window Reflector, Frink's Special Patent	232	Wood Mats	24, 102
Western Electric Voltmeter	240	Window Tubes	441, 442	Wood Moulding	446 to 448
Western Electric Windlasses	184	Wire	466 to 493	Wood Poles	456
Western Union Double Petticoat Test Insulator	421	Wire Cleats, Brass	449	Wood Risers	436
Western Union Glass Insulators	417	Wire Clips for Brass Armored Conduit, Twisted	343	Wooden Carrying Cases	258
Western Union Standard Plus	451			Worsted Incandescent Lamp Cord	389, 490
Western Union Telephone Brackets	451			Woven Wire Brushes, Perfection	139, 140
Westfield Grip	380			Wrenches	330, 387, 390, 393
Westinghouse Attachment Plugs	101			Wurt Lightning Arrestors	157, 158

X

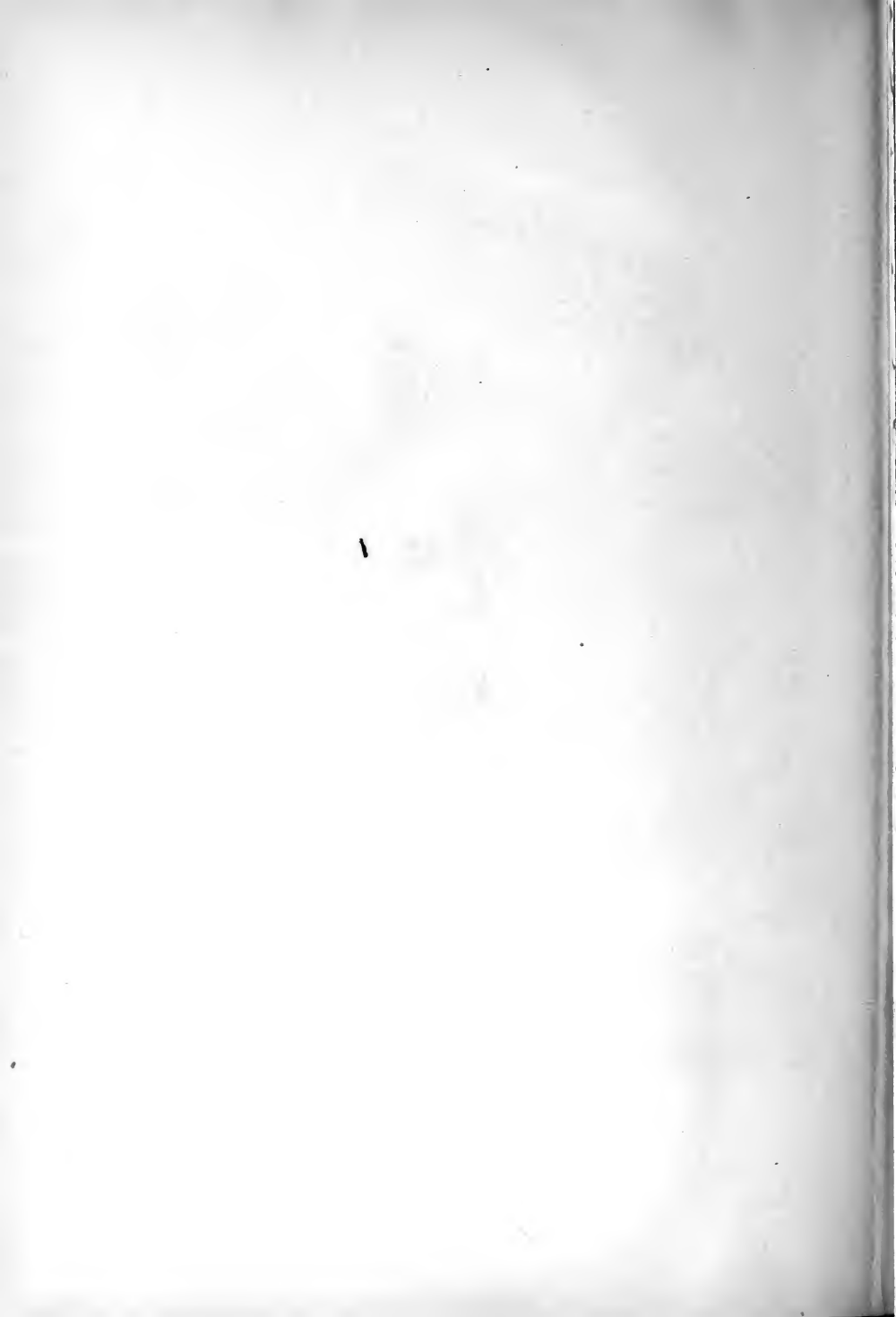
X-Ray Silvered Glass Reflector

221

Z

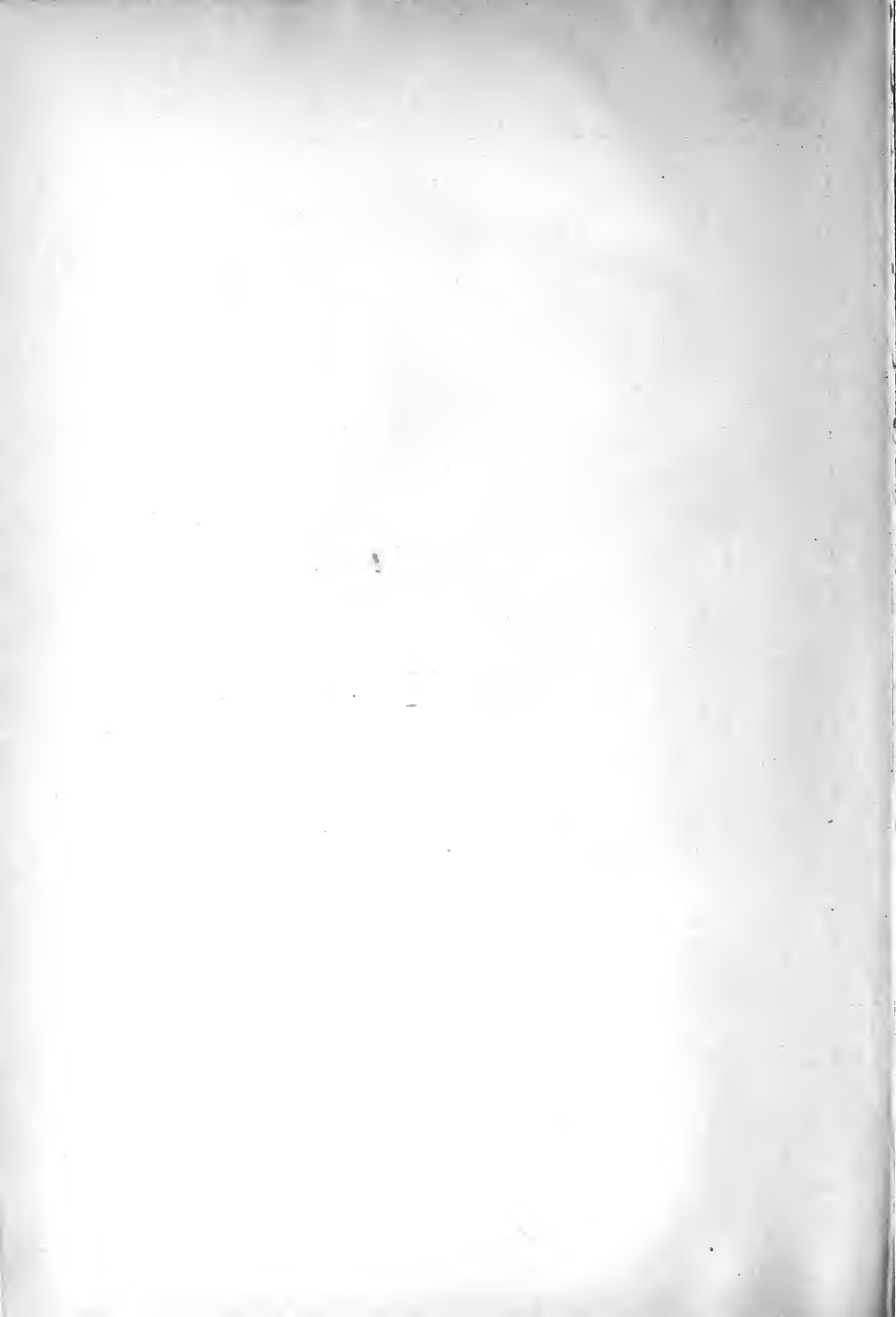
Zone Lamps

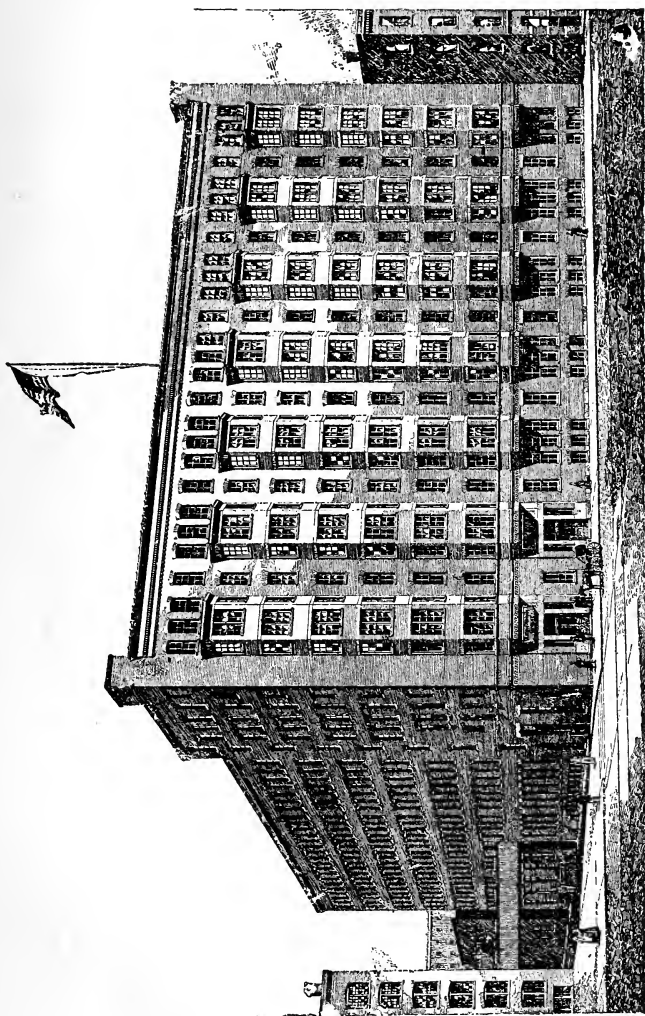
304





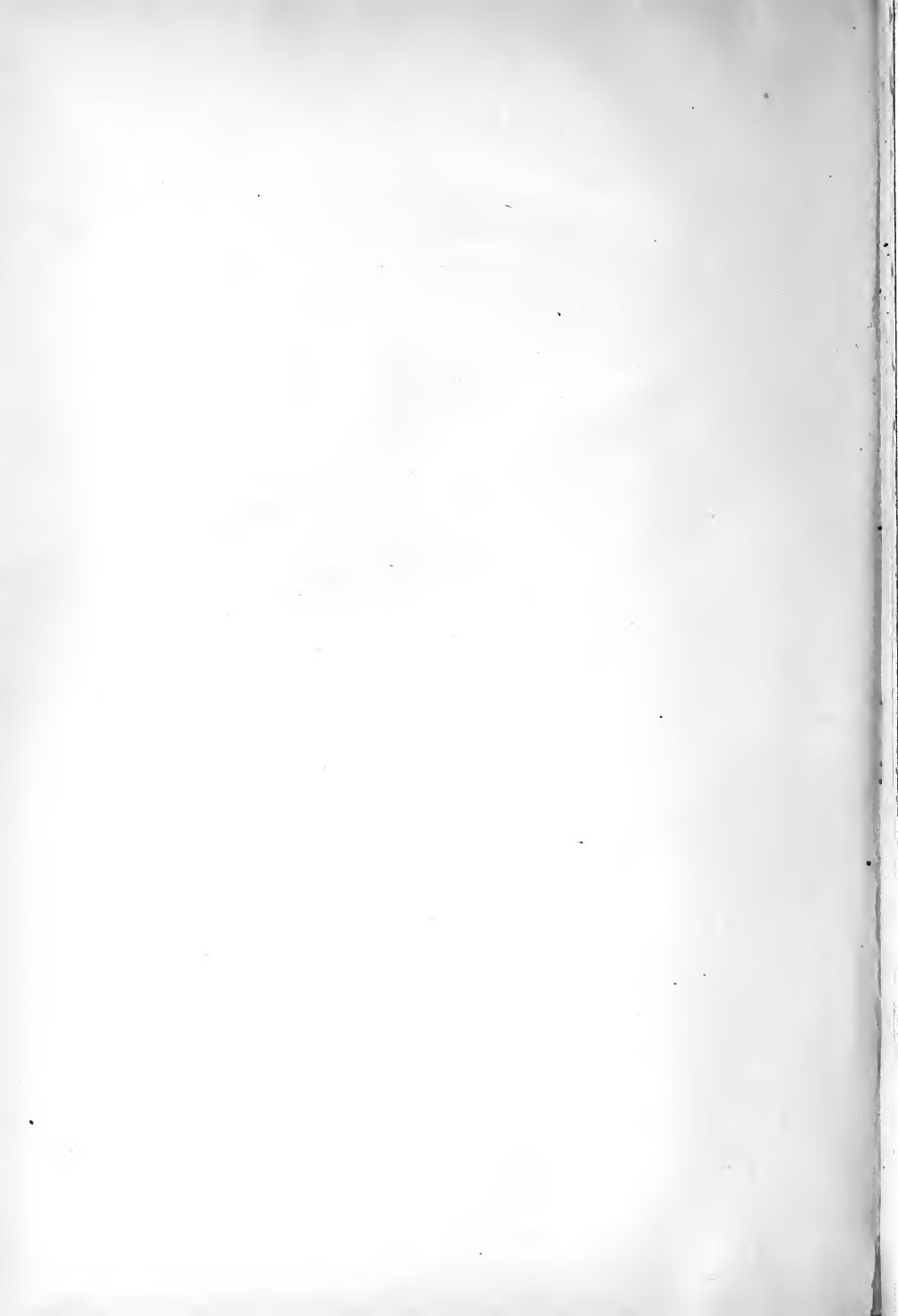
WESTERN ELECTRIC COMPANY'S BUILDING,
57-67 Bethune St., (near West Street),
NEW YORK.

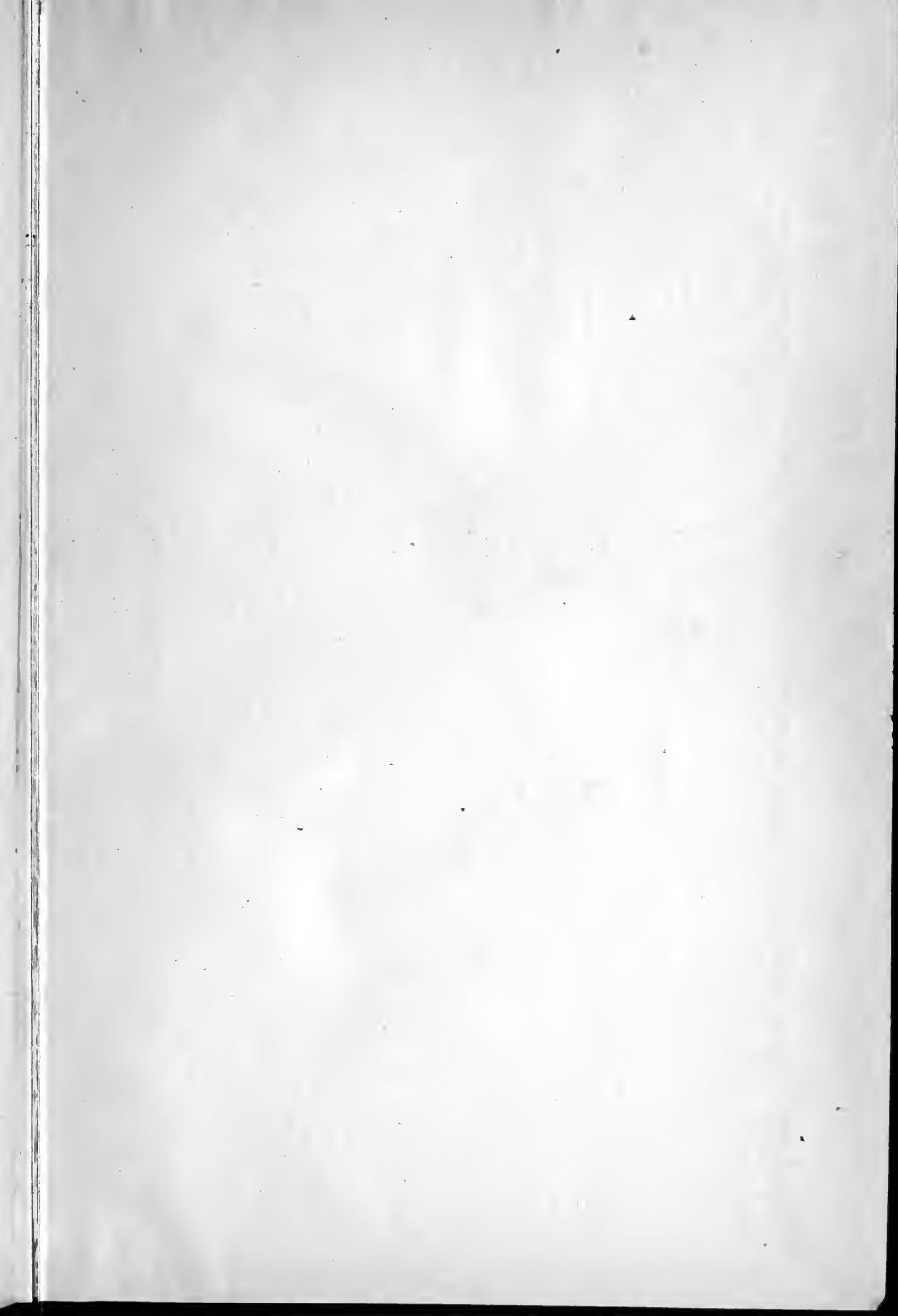


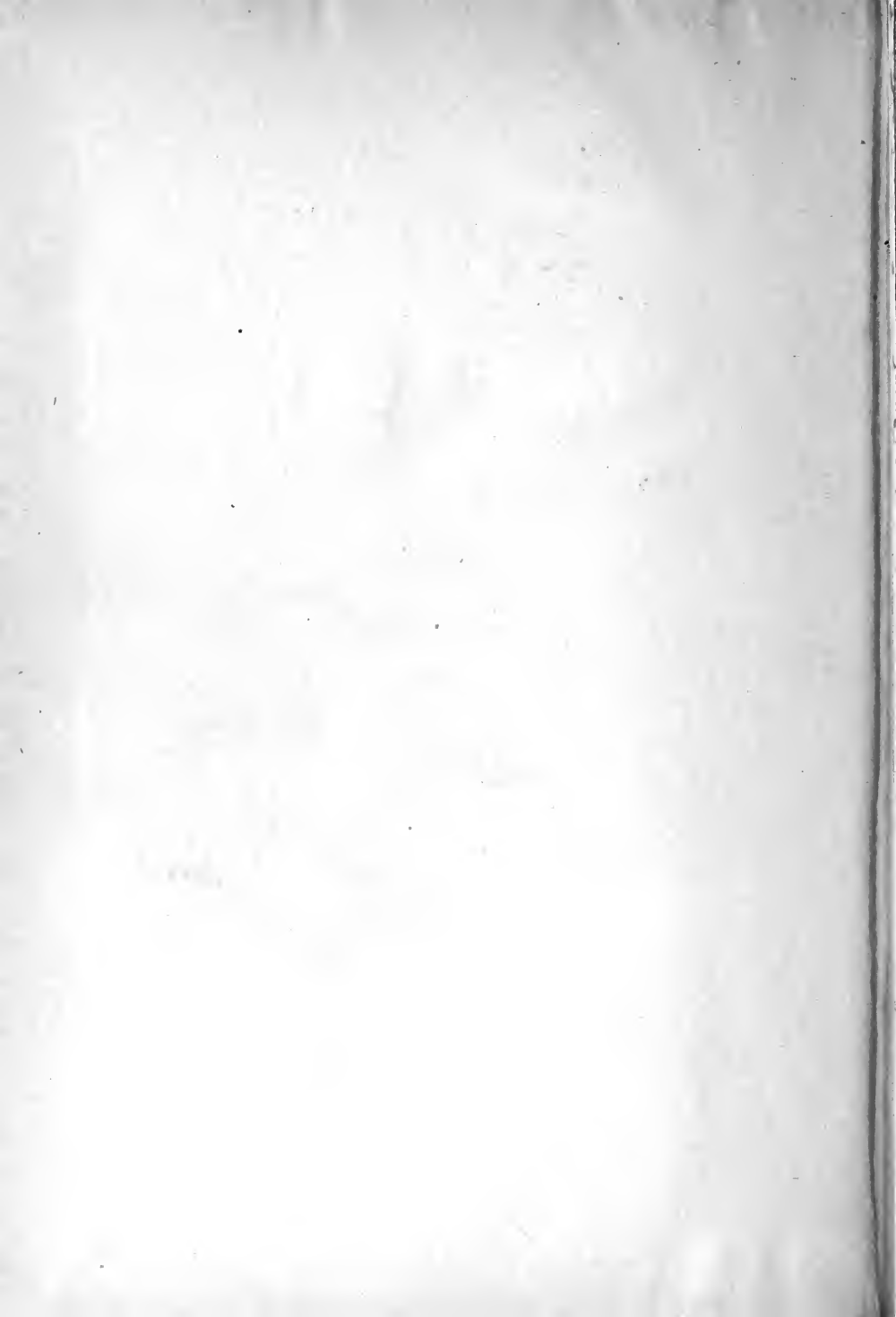


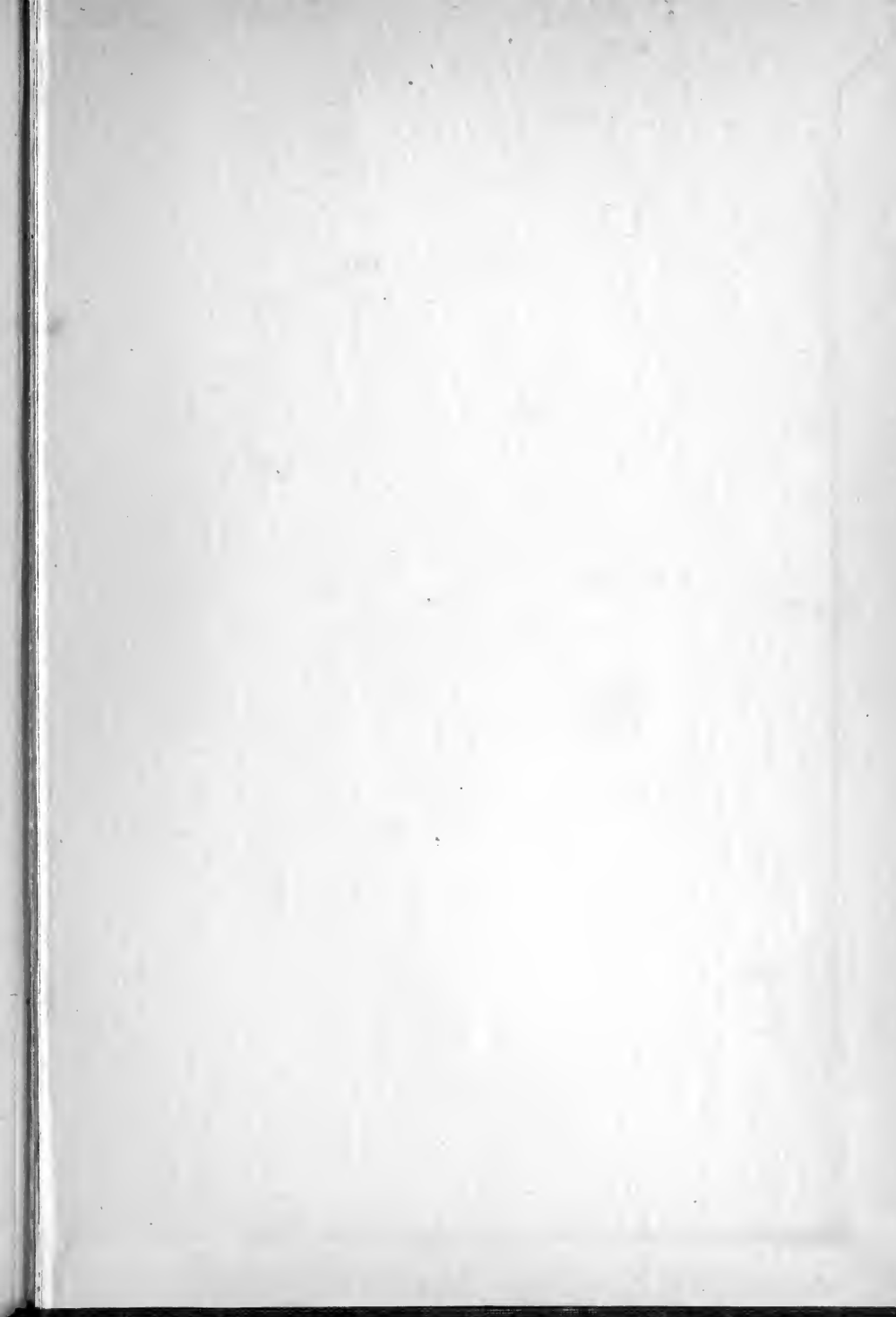
WESTERN ELECTRIC COMPANY,
Office Building...Chicago.

TREAT & FOLTZ,
Architects.









LIBRARY OF CONGRESS



0 028 145 857 7